

SYSTEM SETUP SCREENS



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Introduction

The **C-more** touch panels include a series of built-in System Setup Screens that allow the user to view detailed information about the panel; adjust certain features; configure communications; test various functions of the touch panel; backup & restore firmware, recipe, log and project memory; clear memory and reset all values and conditions back to the original factory defaults.

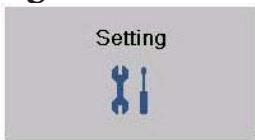
The four Main Menu selections are:

Information



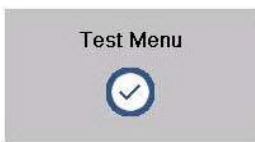
The information tabs display details about the touch panel model; the panel's name; version information for the hardware, boot loader and firmware; clock source, and beeper status. Other tabs display details on the panel's internal memory and the status of any external memory devices. Communication port details are available in this area, as well as an error log to help in trouble-shooting the system

Setting



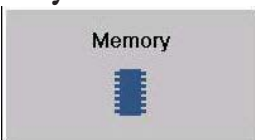
This is the area for 1.) making adjustments to the internal clock, 2.) adjusting the brightness of the display, 3.) setting the IP address 4.) adjusting (calibrating) the touch panel, 4.) enabling or disabling the internal beep, and 5.) enabling or disabling a mouse pointer.

Test Menu



From this sub menu, the user can 1.) test the touch panel, 2.) test the display, 3.) test the user LED 4.) test the communication ports, and 5.) test both the internal beeper or the audio line output, if a speaker with an amplifier is connected. A WAV sound file is system provided for the audio line output test.

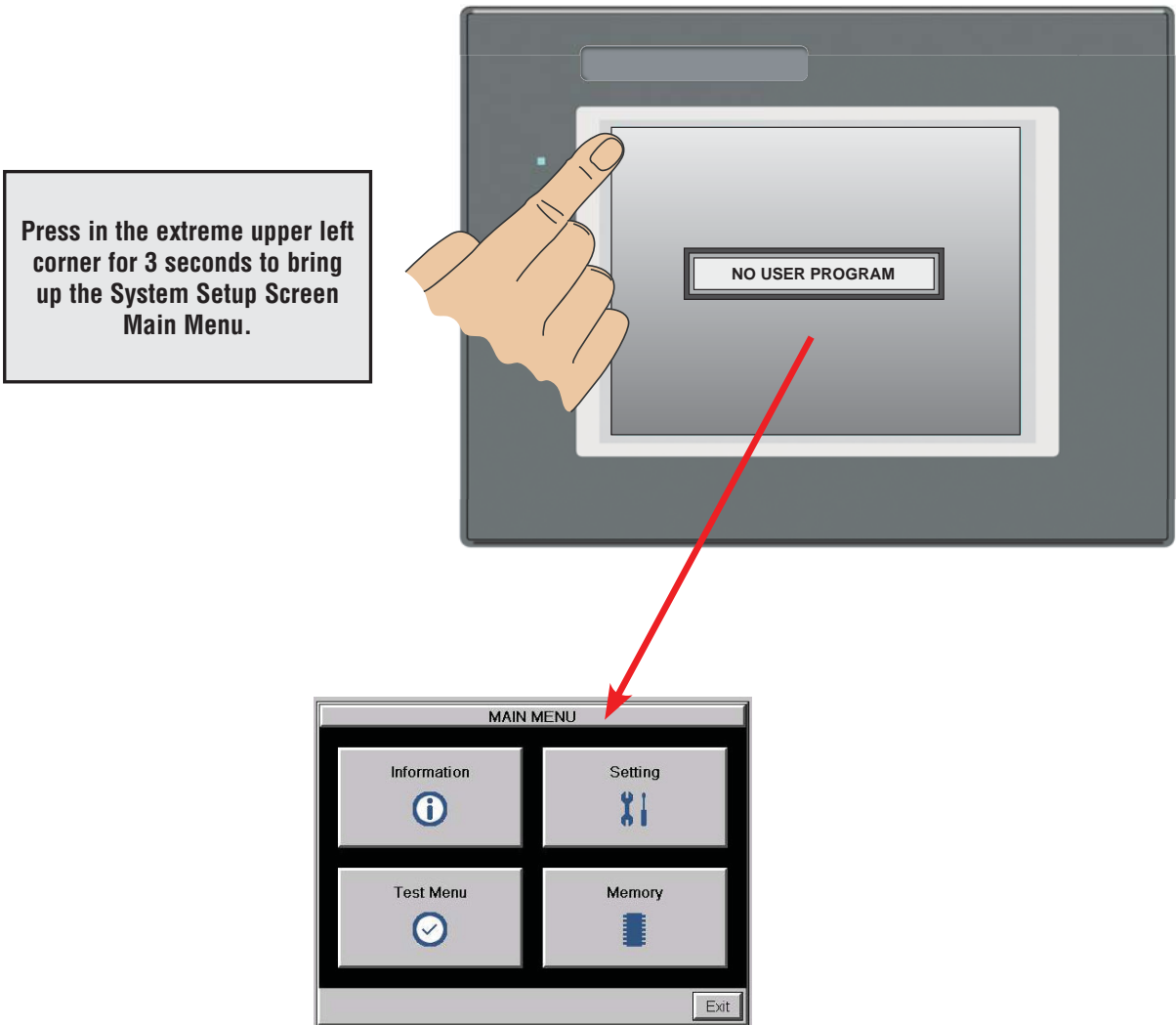
Memory



Select the Memory menu item to either backup or restore your project, log data, recipe data and/or system memory. Selections can be made to backup to optional SD card memory or USB pen drive memory. The menu selections also give the user the ability to clear the memory, and there is also a selection to reset all of the touch panel settings back to the original factory defaults.

Accessing the System Setup Screens (no project loaded)

To access the Main Menu of the touch panel System Setup Screens prior to downloading a project, press the extreme upper left corner of the panel display area for 3 seconds as shown below. The Main Menu will then be displayed.



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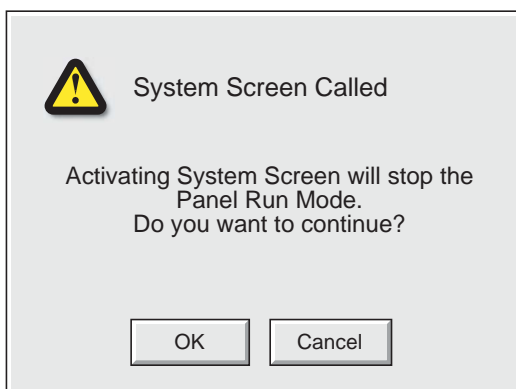
Accessing the System Setup Screens (with project loaded)

To access the Main Menu of the touch panel System Setup Screens with a project loaded into memory, press the upper left corner of the panel display area for 3 seconds as shown below.

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If no system screen password is enabled, the following WARNING dialog box will appear on the touch screen.:



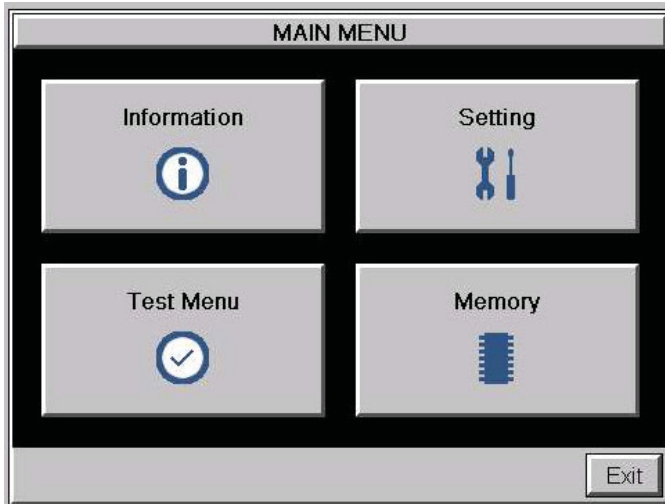
- Pressing OK will display the system setup screen. See the WARNING below!
- Pressing Cancel will take you back to the project screen.
- Communications with the PLC is active while the Warning is displayed.
- The dialog box will close if no action is taken for 60 seconds.
- The dialog box will not display if the touch panel does not have a project loaded.
- The dialog box will display after a valid password is entered if the System Screen password is enabled.



WARNING: Pressing OK at this point will STOP the PLC driver and therefore all communications between the touch panel and PLC will cease. It is strongly recommended that the password system tag "SYS SYSTEMSCREENPW" be enabled to add a safeguard step in accessing the system setup screens. See the next section for an overview for setting the System Tags in the Event Manager Database.

System Setup Screens

The OK button in the Warning dialog box will bring up the Main Menu as shown below. You can then proceed to the other system setup screens.



Password Protecting System Screen Access

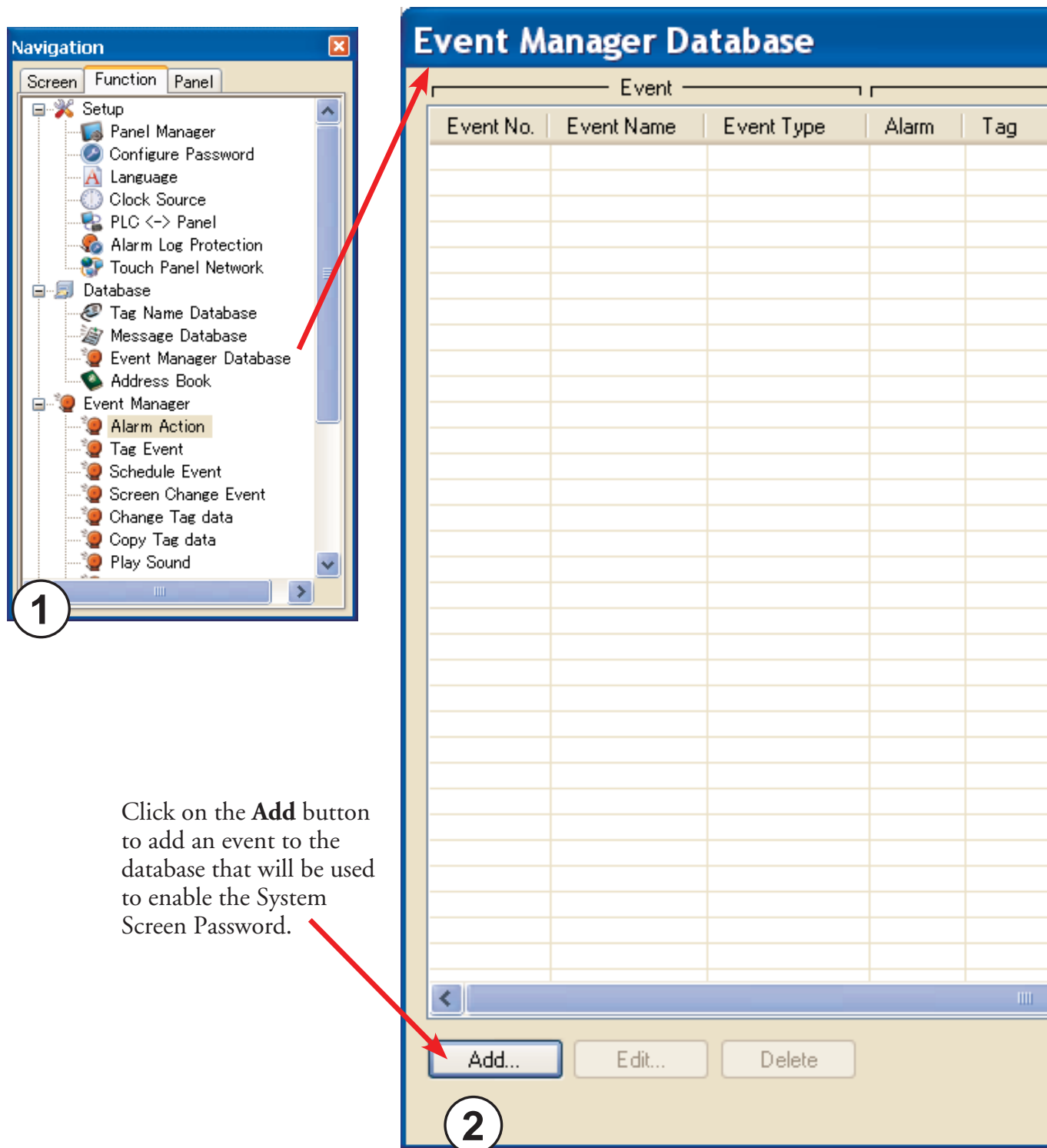


NOTE: If the password system tag *SYS SYSTEMSCREENPW* is enabled, the Enter Security Code keypad shown below will open. The procedure to enable the *SYS SYSTEMSCREENPW* is detailed below. Entering the correct password will display the Panel Run Mode warning dialog described previously. PLC communications continue while the keypad is displayed. The keypad will timeout after 60 seconds.

Enter Security Code			
7	8	9	
4	5	6	
1	2	3	
–	0	CL	Cancel

System Setup Screens – Enable Password in Software

Under the **C-more** Programming Software's Navigation window, select the Function tab, then double click on "Alarm Action" to display the Event Manager Database shown below:



System Setup Screens – Enable Password (cont'd)

The **Event Add** dialog box will be displayed as shown.

The screenshot shows the 'Event Add' dialog box. At the top, 'Event No.' is set to 1. Under 'Event Type', 'Tag' is selected. The 'Tag Name' field has a pull-down menu. A blue arrow points to this menu, which is circled with a '3'. Below this, there are fields for 'Event Name', 'Event State' (ON/OFF), and 'Limits' (Min/Max). The 'Action' section includes a 'Sequence List' with '01-Alarm' checked, and an 'Alarm' tab with 'Language' set to 'Language 1', a 'Text' field, and checkboxes for 'Show in Alarm History', 'Confirmation', 'Save file to CF1', and 'Display' (Text Color, Back Color, Blink). Buttons at the bottom include 'Add', 'Close', and 'Help'.

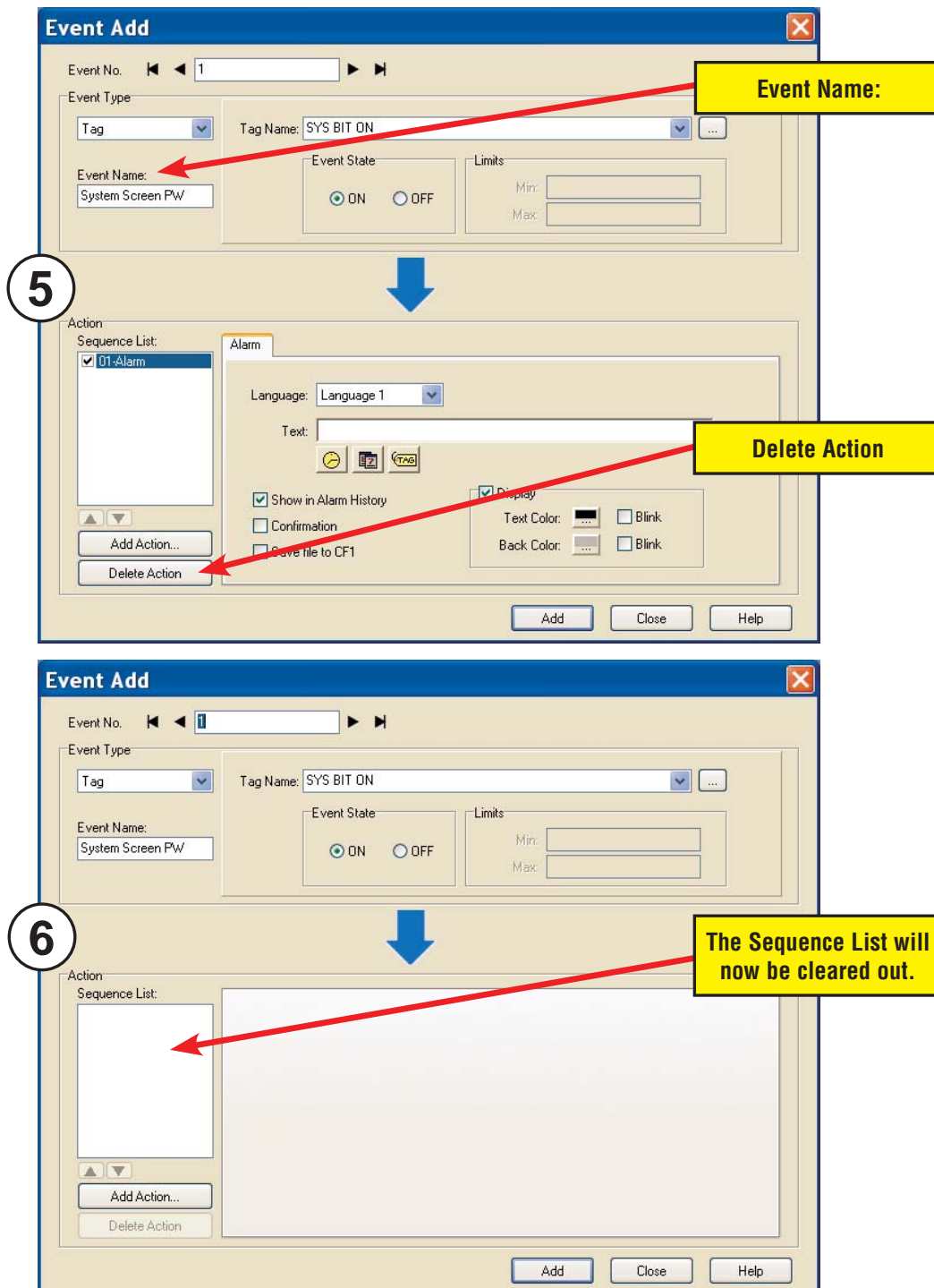
Click on the **Tag Name:** pull down menu and select the internal **System Bit On (SYS BIT ON)** tag as shown. This will force the tag event type to be continuously active.

This screenshot shows the 'Event Add' dialog box with the 'Tag Name' pull-down menu open. A list of system bits is displayed, with 'SYS BIT ON' at the top and highlighted. A red arrow points to this option, and a yellow callout box contains the text 'Tag Name: SYS BIT ON'. A blue arrow points to the 'SYS BIT ON' option in the list. The 'Event No.' is still 1, and the 'Event Type' is 'Tag'. The 'Action' section remains the same as in the previous screenshot. Buttons at the bottom include 'Add', 'Close', and 'Help'.

System Setup Screens – Enable Password (cont'd)

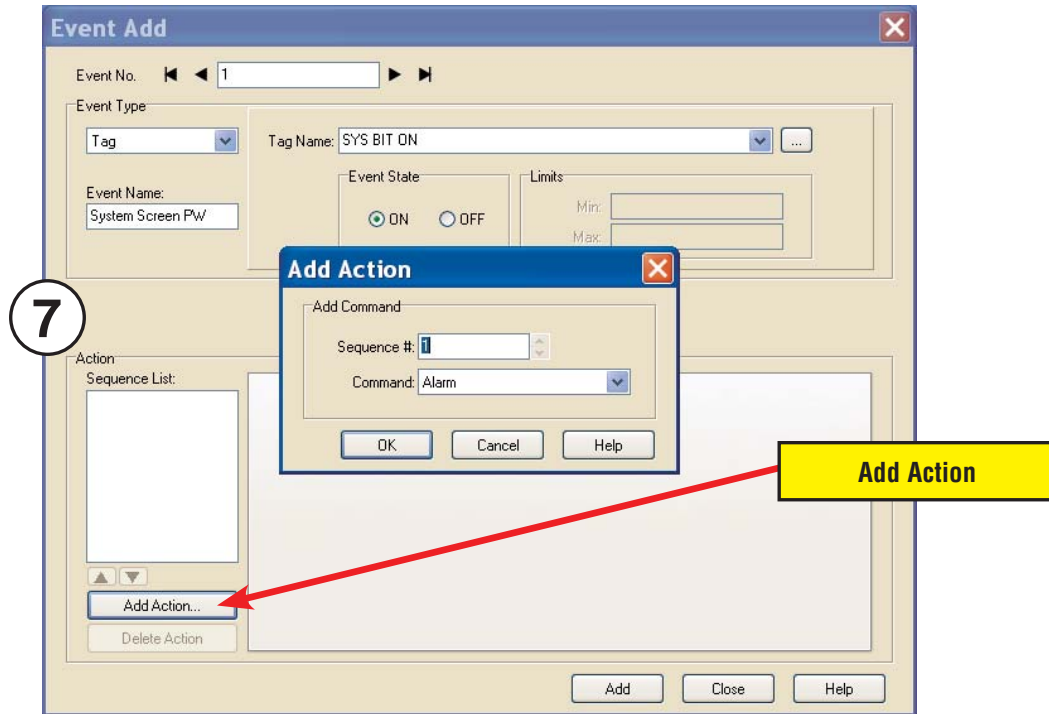
Use the **Event Name:** text box to document the event as “System Screen PW” for record keeping. This is optional.

In the Action box, click once on the displayed 01-Alarm under the Sequence List: so that 01-Alarm is highlighted. Then click the **Delete Action** button to remove the **01-Alarm**.

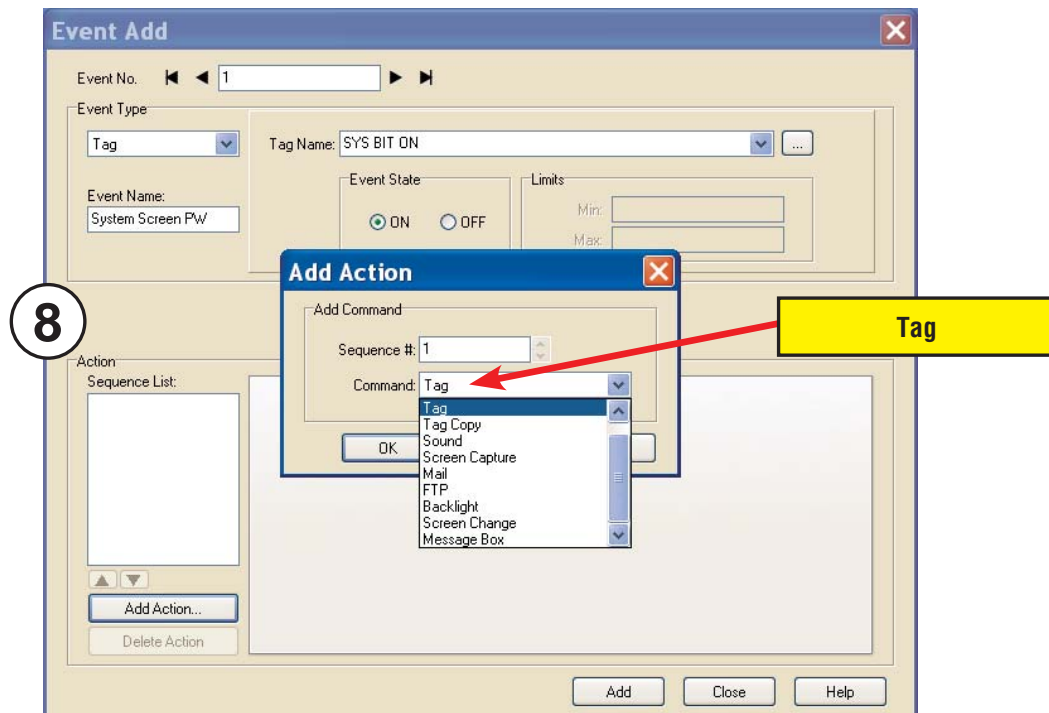


System Setup Screens – Enable Password (cont'd)

In the **Action** box, click on the **Add Action...** button. This will bring up the **Add Action** dialog box as shown below:



Click on the **Command:** pull down list in the **Add Command** box, select **Tag** from the list, then click **OK**.



System Setup Screens – Enable Password (cont'd)

A **01-Tag** action item will then be added to the **Sequence List**.

Event Add

Event No. 1

Event Type: Tag

Tag Name: SYS BIT ON

Event Name: System Screen PW

Event State: ☒ ON ☐ OFF

Limits: Min: Max:

Action: Sequence List: ☒ 01-Tag

Tag Name: Write State: ☒ ON ☐ OFF Write Value: Value: 0 Data Type:

Add Action... Delete Action

Add Close Help

Click on the **Tag Name:** pull down list down arrow in the **Action** box's **Tag** tab, select **SYS SYSTEMSCREENPW** from the list, and click **OK**.

Event Add

Event No. 1

Event Type: Tag

Tag Name: SYS BIT ON

Event Name: System Screen PW

Event State: ☒ ON ☐ OFF

Limits: Min: Max:

Action: Sequence List: ☒ 01-Tag

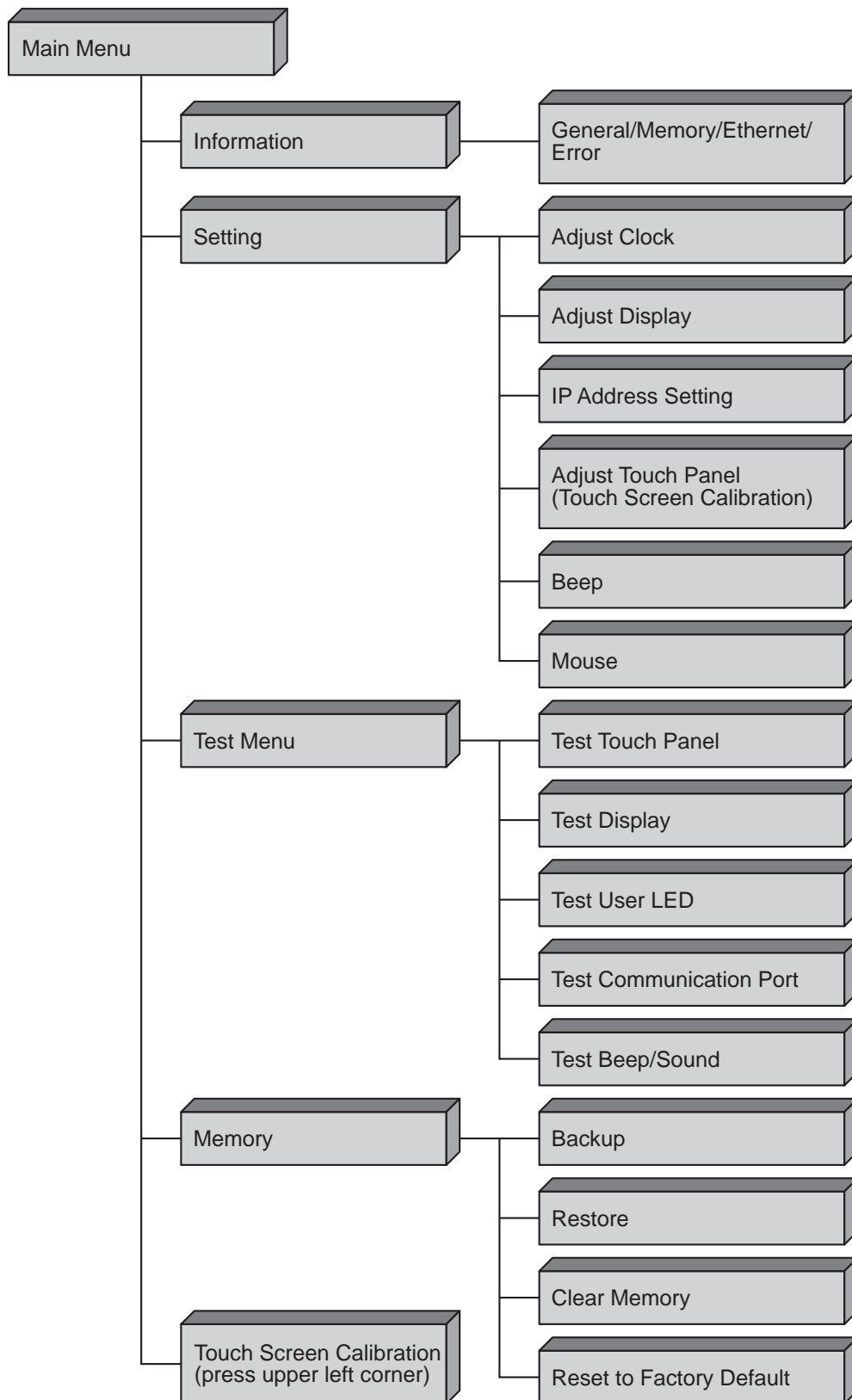
Tag Name: SYS SYSTEMSCREENPW

Write State: ☒ ON ☐ OFF Write Value: Value: 0 Data Type:

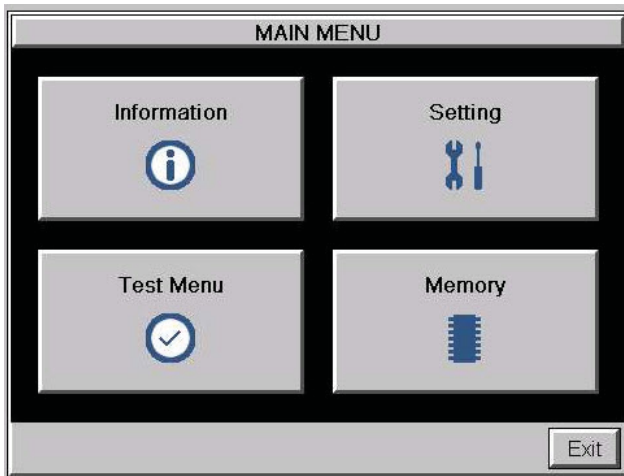
Add Action... Delete Action

Add Close Help

System Setup Screens Flowchart



Main Menu



The **Main Menu** system setup screen is the top layer in the menu structure.

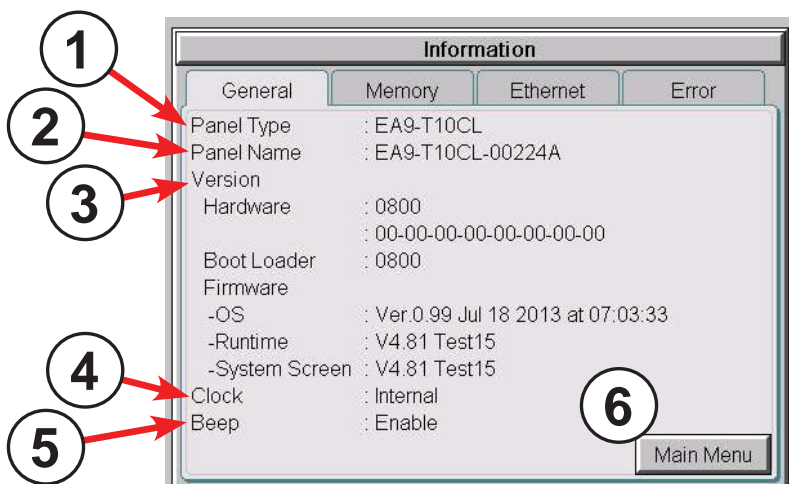
Touch Screen Calibration

While the **Main Menu** system setup screen is being displayed, the extreme upper left corner of the touch panel can be pressed for 3 seconds to access the **Touch Screen Calibration** display. This feature is used if the touch panel data becomes corrupted and touching the **Main Menu** buttons does not work. It allows a shortcut to the touch panel calibration screen



Information Menu

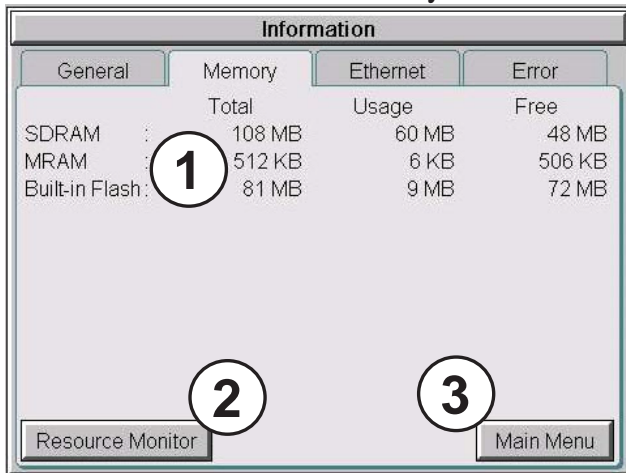
Information - General tab



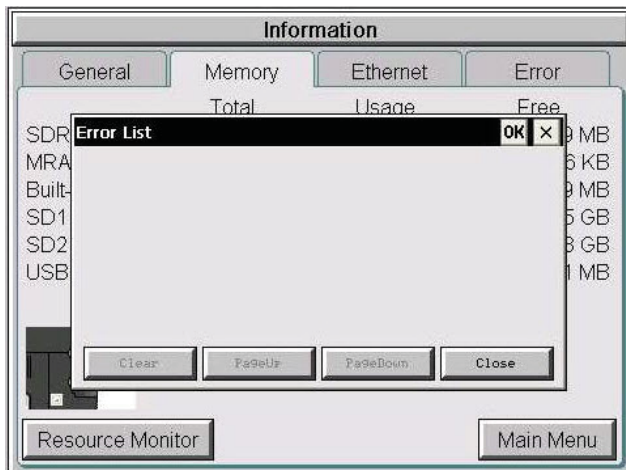
The **General** tab under the Information menu provides detailed information of the *C-more* touch panel.

Item No.	Function	Description	Comments
1	Panel Type	EA9-T6CL-R, EA9-T6CL, EA9-T8CL, EA9-T10CL, EA9-T12CL, EA9-T15CL	Model Number
2	Panel Name	The panel name is configured in the programming software and saved with a project.	The default panel name is the model number plus the lower three bytes of the panel MAC address, ie EA9-T8CL-0022C4.
3	Version	The version identifications provide information on the components and firmware in the panel	Files reside in the <i>C-more</i> touch panel's memory.
4	Clock	Internal/External clock selection.	Configured in the <i>C-more</i> Programming Software.
5	Beep	Status of the internal beeper.	Configurable in the Setting Menu – Beeper shown on page 5-23 or in the <i>C-more</i> Programming Software.
6	Main Menu	Press to return to the Main Menu screen.	Main Menu shown on previous page.

Information - Memory tab

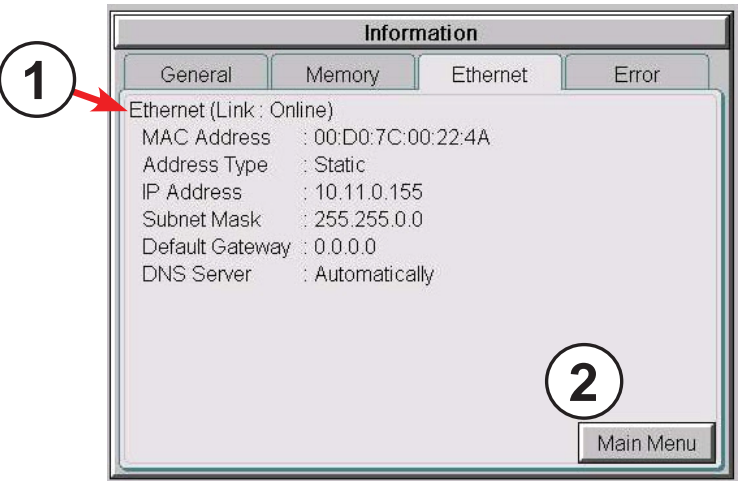


1. **Memory components** - Status of each memory component - SDRAM, MRAM and Built-in Flash are internal memory components. When external memory devices are installed in the panel they will be included in this list : SD1, SD2 (12 and 15 inch panels only) and USB.



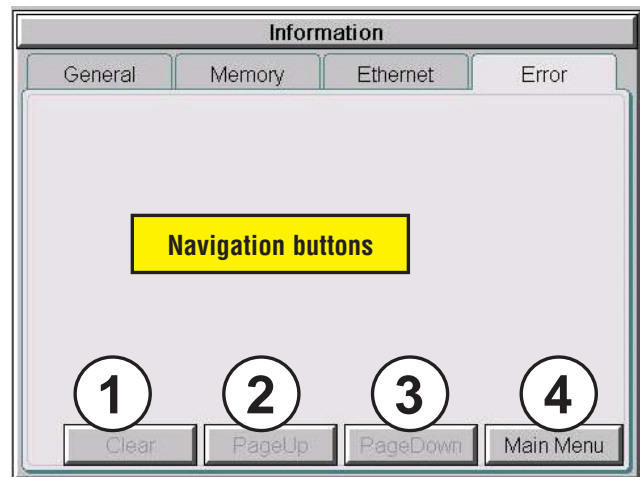
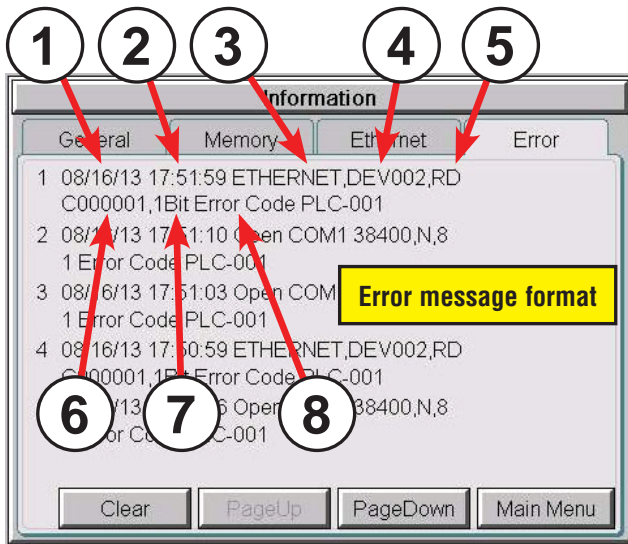
2. **Resource Monitor** - this troubleshooting tool displays CPU and panel internal memory usage. When enabled, the Resource Monitor will display on the panel screen WHILE THE PROJECT IS RUNNING that is, after you click Main Menu then click Exit) - the Resource Monitor also allows access to the Error Tab WITHOUT STOPPING COMMUNICATIONS WITH THE PLC
3. **Main Menu** - Press to return to the Main Menu screen - Main Menu shown previously

Information - Ethernet tab



Item No.	Function	Description	Comment
1	Ethernet (Link: Online)	Ethernet Settings: MAC Address: 00 D0 7C XX XX XX Address Type: DHCP/Static IP Address: Subnet Mask: Default Gateway: DNS: 1.) Automatically 2.) Use Designated Address Note: N/A - not available on reduced featured models (–R)	Configurable in the Setting Menu – IP Address Setting shown on in this section or in the C-more Programming Software.
2	Main Menu	Press to return to the Main Menu screen.	

Information - Error tab



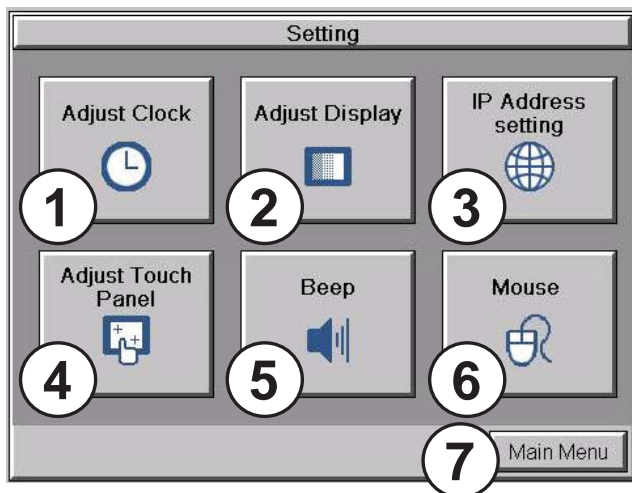
Error Message Format:

Item No.	Function	Description	Comment
Order of error message functions: Error Number, Date, Time, Error Port, Device Name, Error Type, PLC Device, Access Bytes, Error Message			
1	Date	Format: MM/DD/YY	Date error occurred.
2	Time	Format: HH/MM/SS	Time error occurred.
3	Error Port	PLC Serial Communications Port: Ethernet:	
4	Device Name	The name of the device reporting the error.	Device names are configured in the programming software, Panel Manager
5	Error Type	RD: Read WT: Write	
6	PLC Address	The assigned address of the PLC that caused the error.	
7	Access Bytes	The number of access bytes.	
8	Error Message	The error message is the same as the message displayed in the upper left of the <i>C-more</i> touch panel's display.	A list of Error Messages is shown in Appendix A

Error Message navigation buttons:

Item No.	Function	Description	Comment
1	Clear	Press to clear all error messages. This button is grayed out when there are no error messages to display.	Errors are also cleared with firmware is updated on the panel. Errors are not cleared on power cycle or project transfer.
2	Page Down	Press to go to the next page. This button is grayed out when there is no error messages on the next page.	
3	Page Up	Press to go to the previous page. This button is grayed out when there is no error messages on the previous page.	
4	Main Menu	Press to return to the Main Menu screen.	

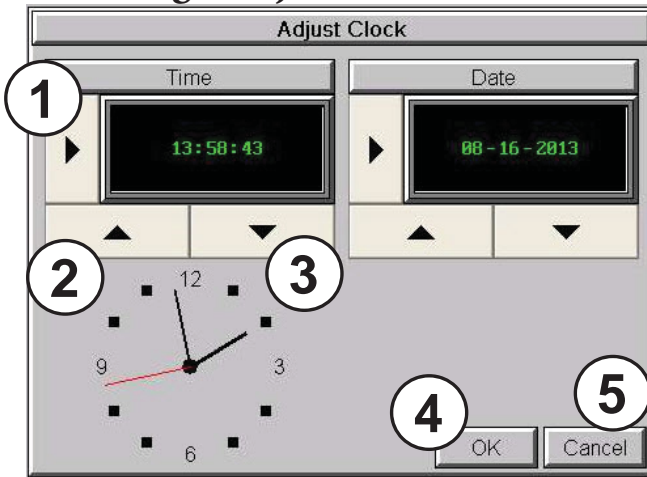
Setting Menu






The **Setting Menu** is used to adjust the time & date, adjust the contrast or brightness of the display, enter the IP address settings, adjust (calibrate) the touch screen, enable or disable the internal beep and turn on and off the mouse cursor .

Item No.	Function	Description	Comments
1	Adjust Clock	Press to go to the Adjust Clock screen.	
2	Adjust Display	Press to go to the Adjust Display screen.	
3	IP Address	Press to go to the IP Address screen	The IP Address can also be set from the programming software or by the project.
4	Adjust Touch Panel	Press to go to the Adjust Touch Panel screen.	
5	Beep	Press to go to the Beep screen.	
6	Mouse	Press to go to the Mouse screen.	
7	Main Menu	Press to return to the Main Menu screen.	

Setting – Adjust Clock



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Item No.	Function	Description	Comments
1	Select	 <p>Time: Each press of the Select button will cycle thru the following settings. 1.) No Selection to Hours 2.) Hours to Minutes 3.) Minutes to Seconds 4.) Seconds back to Hours</p> <p>Date: Each press of the Select button will cycle thru the following settings. 1.) Month to Day 2.) Day to Year 3.) Year back to Month</p>	
2	Up	 <p>Press to increment the value by “1” with each press.</p>	
3	Down	 <p>Press to decrement the value by “1” with each press.</p>	
4	OK	Press to accept the changes.	
5	Cancel	Press to return to the Setting Menu screen without accepting the changes.	

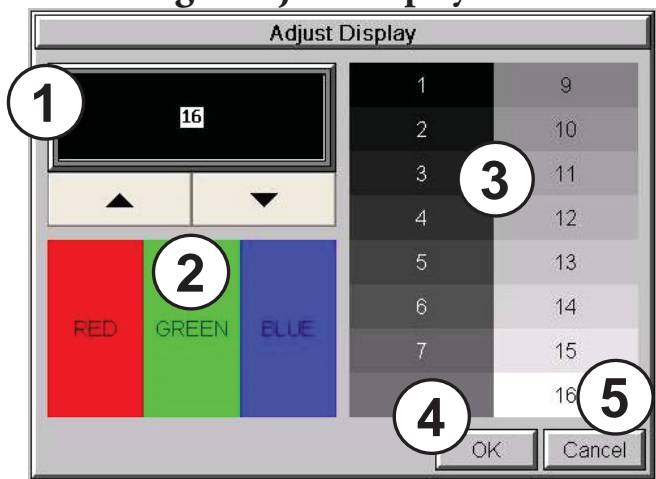


NOTE: The function buttons used to adjust the clock settings on the panel's setup screen are **disabled** if an **External** clock source is selected in the **C-more** programming software. The choice of an internal or external clock source is available by selecting **Clock Source** in the **C-more** programming software under the **Main Menu** drop down function **Setup**.



NOTE: The panel's clock can also be adjusted from the **C-more** programming software. The **Adjust Clock** function can be accessed in the software by selecting **Adjust Clock** under the **Main Menu** drop down function **Panel** or selecting **Adjust Clock** under the **Panel** tab in the software's **Navigation** window.

Setting – Adjust Display



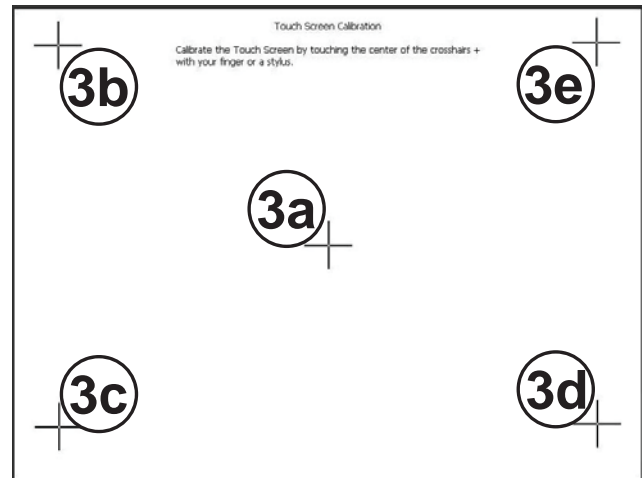
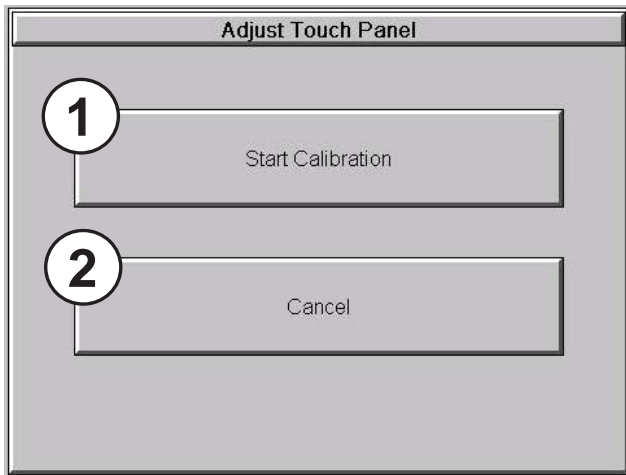
Item No.	Function	Description	Comments
1	Setting	Use the Up and Down arrows to change the brightness.	
2	Color Sample	Displays a sample of how colors will appear with the new setting.	
3	Contrast Sample	Displays a sample of contrast with the new setting	
4	OK	Press to accept the changes.	
5	Cancel	Press to return to the Setting Menu screen without accepting the changes.	

Setting – Adjust Touch Panel

This procedure is used to calibrate the touch screen to ensure accuracy of the touch areas. There are five points on the touch screen that the calibration is based around. The adjustment relies on very narrow areas for the calibration points.



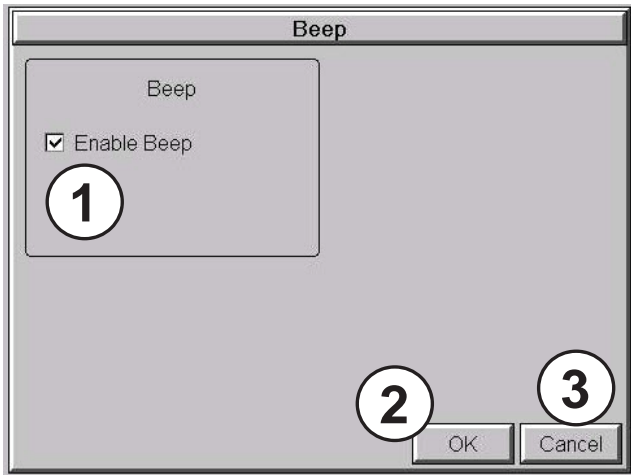
NOTE: The panel will display the *Adjust Touch Panel* window on power up until the calibration procedure is completed.



5

Item No.	Function	Description	Comment
1	Start Calibration	Press to begin the touch screen calibration	
2	Cancel	Press to return to the Setting Menu screen.	
3	Points 3a thru 3e	The touch screen calibration crosshairs will appear individually in the order of point 3a thru 3e respectively as each proceeding crosshair is pressed.	If the touched co-ordinate point is too far off from normal, then the procedure will return to Point 3a.

Setting – Beep



This system setup screen function is used to enable or disable the touch panel's internal beep function.

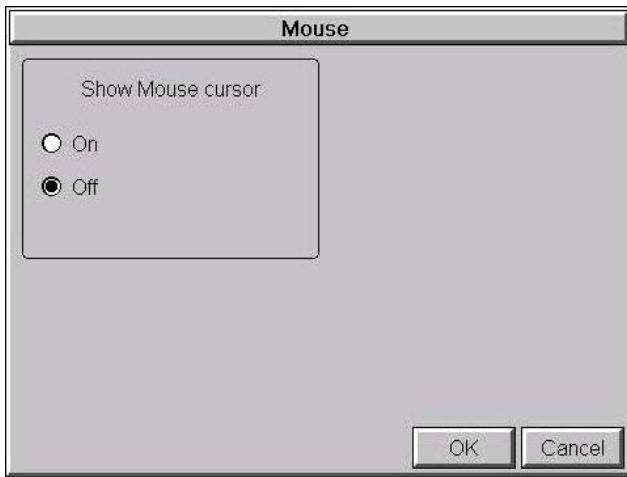
5

Item No.	Function	Description	Comments
1	Enable Beep	Check to enable the internal beep.	
2	OK	Press to accept the changes.	
3	Cancel	Press to return to the Setting Menu screen without accepting the changes.	



***NOTE:** The project settings in the C-more programming software **Panel Manager** will override the touch panel's internal setting upon initial download.*

Setting – Mouse



This system setup screen function is used to enable/disable the arrow mouse cursor on the panel screen. It may be valuable to display the mouse cursor, for example, when an external USB keyboard is connected to the panel..



NOTE: The project settings in the C-more programming software *Panel Manager* will override the touch panel's internal setting upon initial download.

Setting – IP Address Setting

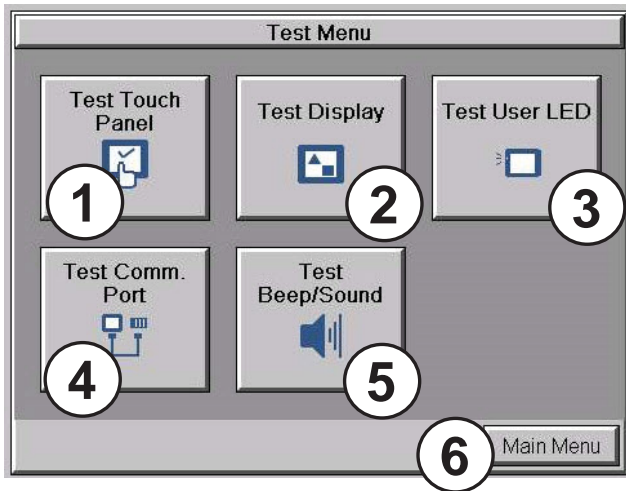
The screenshot shows the 'IP Address setting' dialog box. It has two radio buttons at the top: 'DHCP' (labeled 1) and 'Use the following IP Address' (labeled 2). The 'Use the following IP Address' option is selected. Below the radio buttons are three input fields: 'IP Address' (labeled 3), 'Subnet Mask', and 'Default Gateway'. Each field contains a numerical value separated by dots. Below these fields is a numeric keypad (labeled 4) with buttons for digits 1-9, 0, and a 'CL' button. At the bottom are 'OK' (labeled 5) and 'Cancel' (labeled 6) buttons. A large number '5' is also visible on the left side of the page.

Item No.	Function	Description	Comment
1	DHCP	“DHCP” is enabled as the default when this system setup screen is first selected. All of the other selections on this screen are dimmed when “DHCP” is selected and are not available.	
2	IP Address	The “Use the following IP Address” setting is selected when its radio button is pressed. Use the numerical keypad to assign the IP address.	Note: If an Ethernet cable is not connected to the touch panel from an active Ethernet device, then the IP Address will show as 0.0.0.0.
3	IP Address Subnet Mask Default Gateway	Select the field that needs to be assigned by touching the entry value and use the keypad to enter the desired address.	Each field can be independently assigned.
4	Keypad	The keypad is used to enter the Address: Use the numeric keys to enter the address, e.g: 192.168.10.1 “CL” = Clear value entered	
5	OK	Press to accept the changes and return to the Setting Menu screen.	
6	Cancel	Press to return to the Setting Menu screen without accepting the changes.	



NOTE: The project settings in the *C-more* programming software *Panel Manager* will override the touch panel's internal setting upon initial download.

Test Menu

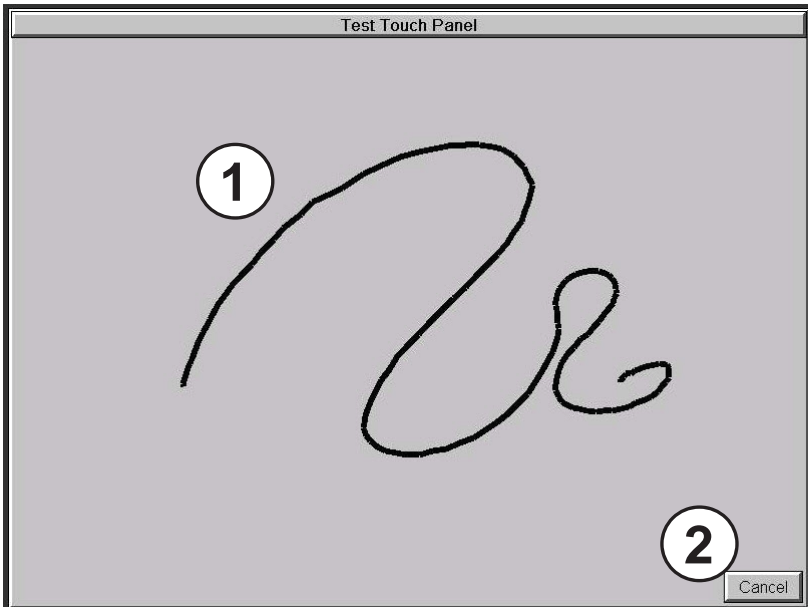


The **Test Menu** gives the user the ability to test the operation of the touch screen, test the LCD display, test the various communication ports, and also test the internal beeper and the audio line out through an user supplied amplified (stereo) speaker(s).

5

Item No.	Function	Description	Comments
1	Test Touch Panel	Press to go to the Test Touch Panel screen.	
2	Test Display	Press to go to the Test Display screen.	
3	Test User LED	Tests the user configurable LED on the front of the panel. Refer to the online help file for details on the configuration of this LED.	
4	Test Communication Port	Press to go to the Test Communication Port screen.	
5	Test Beep/Sound	Press to go to the Test Beep/Sound screen.	
6	Main Menu	Press to return to the Main Menu screen.	

Test Menu – Test Touch Panel



Using this test, normal or unusual operation of the analog touch panel can be determined.

Testing:

If an area of the touch screen is suspected to be inoperable, touch that area of the screen while in the **Test Touch Panel** screen mode. The screen pixels should turn black in that area. If the screen pixels do not turn black when touched, then the touch screen is defective or needs to be calibrated. See **Setting - Adjust Touch Screen**

Item No.	Function	Description	Comments
1	Touch area	Touch to turn on pixels on the screen.	Both the title bar (Test Touch Panel) and Cancel button can be drawn across to test the touch operation.
2	Cancel	Press to return to the Test Menu screen.	

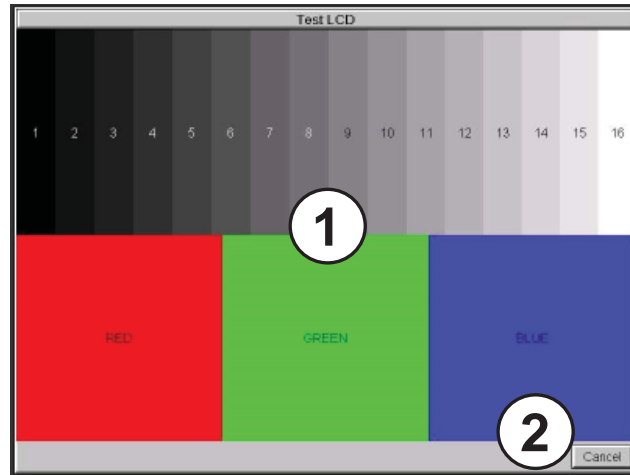


***NOTE:** The Touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.*

Test Menu – Test Display

There are two different test patterns that may be run on the display to allow the user to check for display screen defects. If the screen is not touched within 3 seconds of **Test Pattern 1** being displayed, then **Test Pattern 2** will be displayed until the screen is touched, otherwise **Test Pattern 1** will remain until cancelled.

Test Pattern 1 displays a test pattern of 16 grayscale graduations and RGB colors.



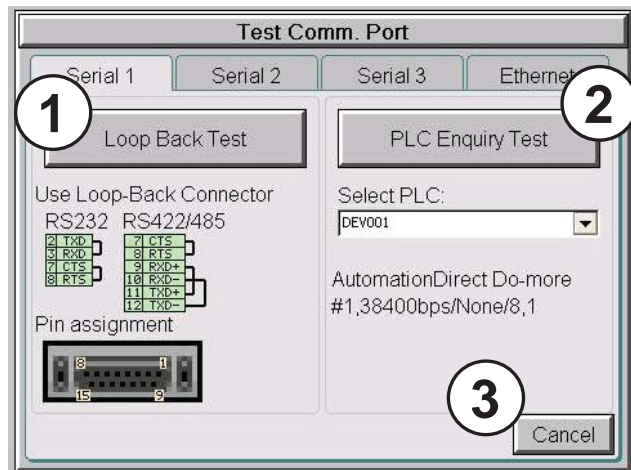
Test Pattern 2 will follow the pattern as shown in the following chart with the color wiping across the screen in the direction indicated by the arrows, then repeats:

	Color	1st Time	2nd Time	3rd Time	4th Time
3	RED	→	↑	↓	←
	GREEN	←	→	↑	↓
	BLUE	↓	←	→	↑

Item No.	Function	Description	Comments
1	Touch the Test Display screen.	Press the screen anywhere except the Cancel button and the shown Test Pattern 1 remains.	If the Test Display screen is not touched, then in three seconds the display will move to Test Pattern 2 .
2	Cancel (Test Pattern 1)	Press to return to the Test Menu screen.	
3	Touch Anywhere (Test Pattern 2)	Touch the screen anywhere during Test Pattern 2 and return to the Test Menu screen.	

Test Results: If any pixels on the screen do not appear the same color as the surrounding pixels, the screen may be defective. A single pixel gone bad is relatively common. Surrounding pixels going bad over time is another indication the screen may be defective.

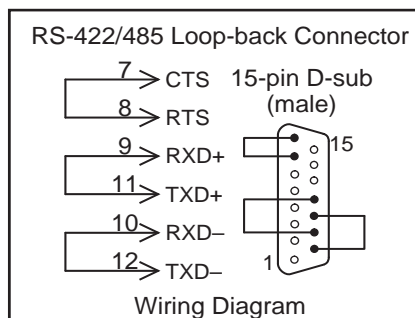
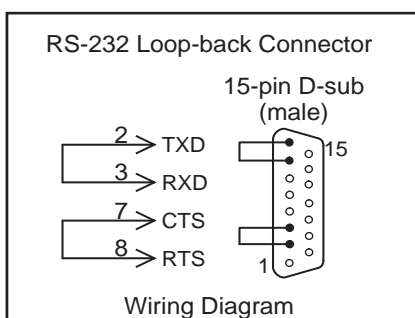
Test Menu – Test Communication Ports: Serial Ports



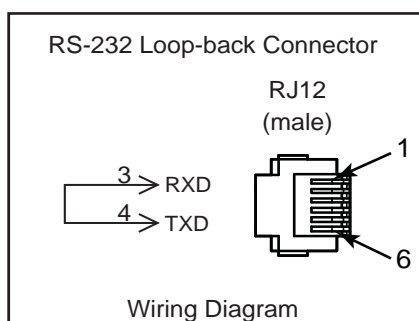
The following test can be used to check the operation of the serial communication ports, with the use of a loop back connector and can also check the serial communications to any connected and configured PLC.

Item No.	Function	Description	Comments
1	Loop Back Test	The loop back test checks the hardware components of the selected port for proper operation.	The loop back test may be performed on Serial Port 1 or Serial Port 3. Each tab shows diagrams to assist the user in building the loop back connector..
2	PLC Enquiry Test	This function allows the ability to select any PLC that may be connected to the touch panel via a serial connection and checks to see if the communications are working correctly.	The PLC must be configured for the selected port in the C-more programming software Panel Manager and transferred to the panel before attempting the PLC Enquiry test.
3	Cancel	Press to return to the Test Menu screen.	

Serial Port 1



Serial Port 3



Test Menu – PLC Serial Comm Port – Loop Back Test

Test Results

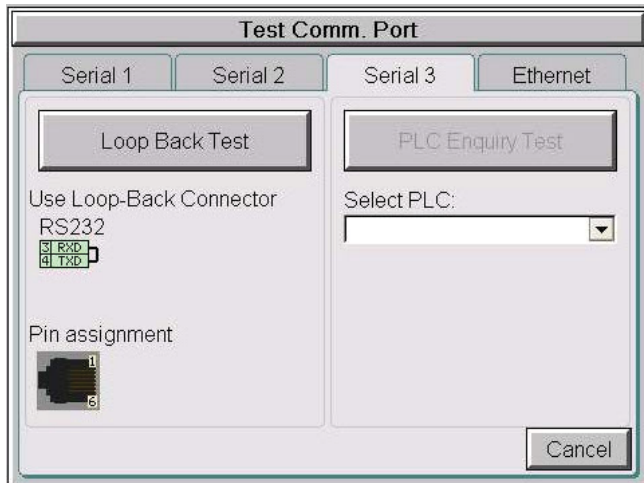
- 1.) Bytes Sent:
The number of bytes sent after a test is started.
- 2.) Receive Counts:
The number of bytes which are received after the test is started.
- 3.) Error Counts:
The number of bytes which have not been received after the test is started.
- 4.) RTS/CTS Test: Pass/Fail
RTS is turned on and if CTS receives the signal then the test shows “Pass”, otherwise the test shows “Fail”.



NOTE: The test will continue to run until the Cancel button is pressed. If there are any error counts, check the loop back connector. If it is OK, call Tech Support..

Test Conn. Port			
Serial : Loop Back Test			
COM3 Port	Bytes	Receive	Error
TXD/RXD	Sent	Counts	Counts
Test	8	8	0
RTS/CTS			
Test	Pass		
<input type="button" value="Cancel"/>			

Test Menu – PLC Enquiry Test: Serial Connection



This function allows the ability to select any PLC that may be connected to the touch panel through the selected serial comm. port connection and checks to see if the communications are working correctly.

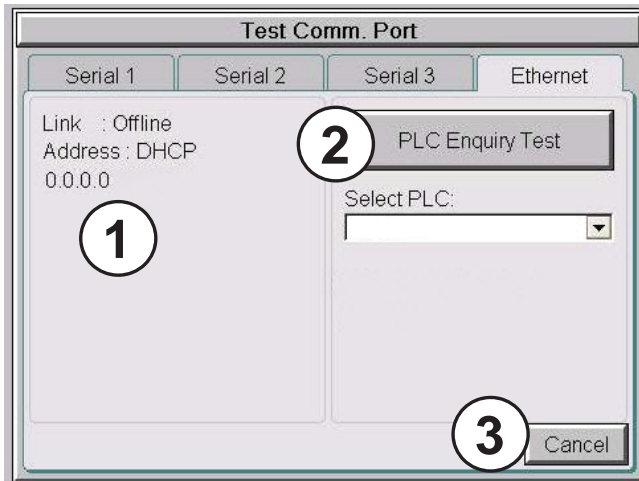


NOTE: The communications protocol for the PLC being selected must be configured the same as the C-more touch panel. The touch panel's PLC serial communications are configured using the C-more Programming Software's Panel Manager.

PLC Enquiry Test

Four test packets are sent to the selected PLC. The test result will return either Pass or Fail.

Test Menu – Test Communication Ports: Ethernet



The following test feature can be used to check the operation of the Ethernet communication port by indicating if an Ethernet link has been established or not, and can also check the status of the Ethernet communications to any connected PLC.

Base featured models (-R) do not include an Ethernet port, therefore this check is not displayed.

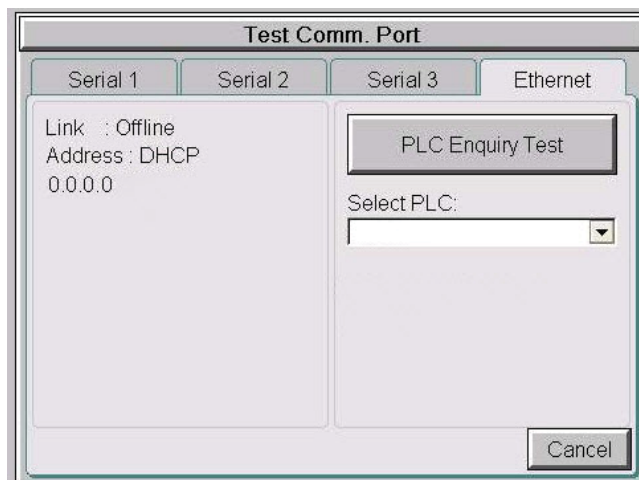


NOTE: The communications protocol for the PLC being selected must be configured the same as the C-more touch panel. The touch panel's PLC serial communications are configured using the C-more Programming Software's Panel Manager.

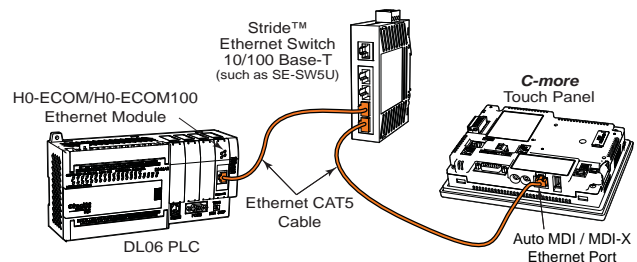
5

Item No.	Function	Description	Comments
1	Ethernet Connected	This area displays information to whether an Ethernet link has been established for the touch panel's Ethernet comm port or not. Displays panel's IP address and shows whether it is static or assigned by a DHCP server.	
2	PLC Enquiry Test	This function allows the ability to select any PLC configured in the project that may be connected to the touch panel via an Ethernet connection and checks to see if the communications are working correctly.	The PLC must be configured for the selected port in the C-more programming software Panel Manager and transferred to the panel before attempting the PLC Enquiry test.
3	Cancel	Press to return to the Test Menu screen.	

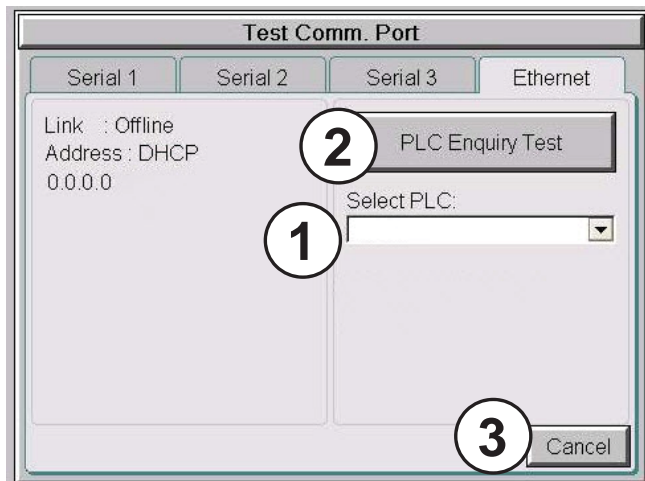
Example of displayed message when the touch panel's Ethernet port is not connected. Note that the address resets to 0.0.0.0 even if it has previously been entered.



Typical Ethernet connection with Ethernet switch.



Test Menu – PLC Enquiry Test: Ethernet Connection



This function allows the ability to select any PLC configured in the project that may be connected to the touch panel through an Ethernet port connection and checks to see if the communications are working correctly.



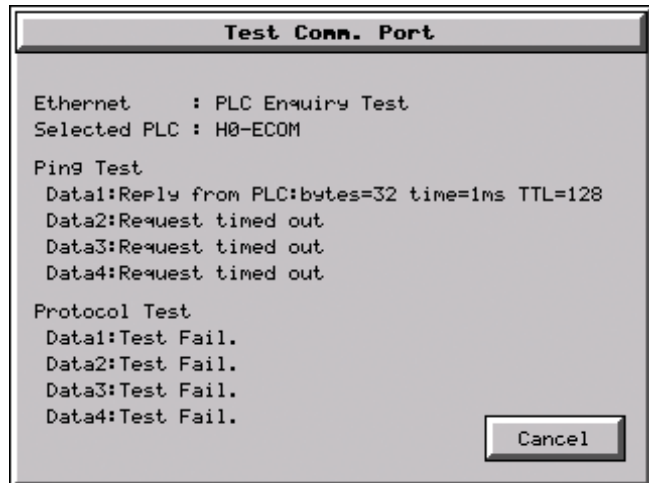
NOTE: The communications protocol for the PLC being selected must be configured the same as the C-more touch panel. The touch panel's PLC serial communications are configured using the C-more Programming Software's Panel Manager.

PLC Enquiry Test

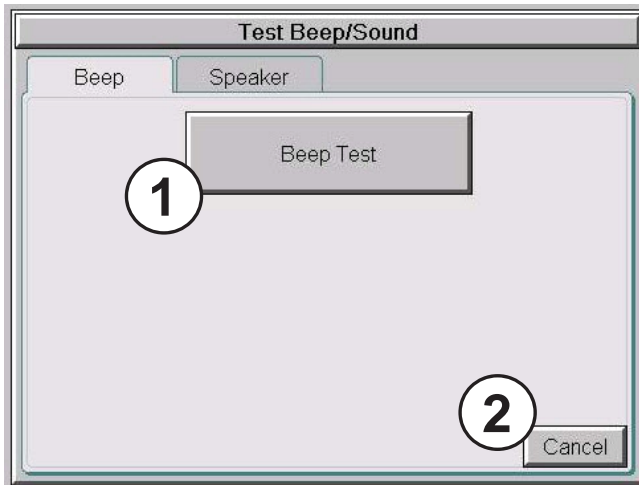
Following are the steps that the Ethernet PLC Enquiry Test performs:

- 1.) Ping the network 4 times for the PLC selected.
- 2.) Four of the test read packets are sent to the selected PLC.

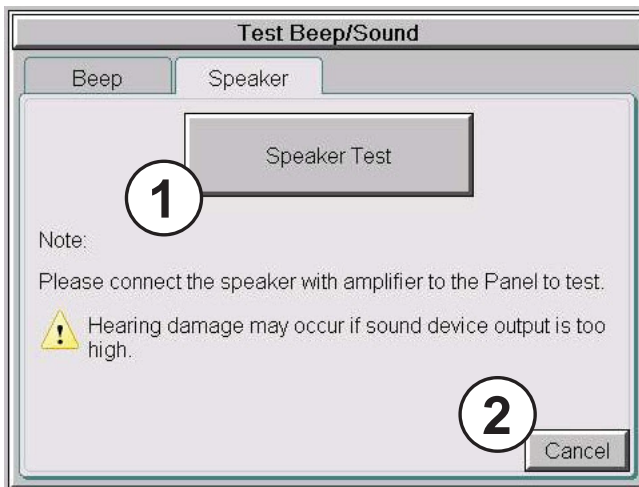
The test result will either be Pass or Fail. However, if the result of pinging the network shows an error, the test is stopped.



Test Menu – Test Beep/Sound



The internal Beeper can be tested from this system setup screen whether the Beeper is enabled or disabled. After the **Beep Test** button is pressed and released, the Beeper will sound for 500 msec.



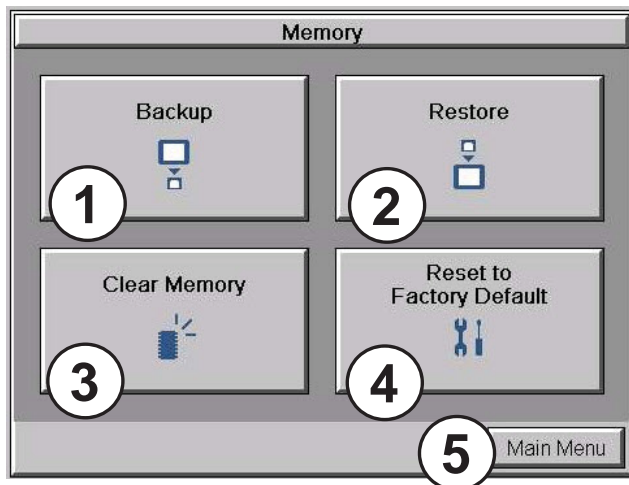
The **Speaker Test** function requires that a speaker(s) with an amplifier (can be stereo) be connected to the Audio Line Out stereo jack on the rear of the touch panel.

After the **Speaker Test** button is pressed then released, a system provided Test.WAV file will play once.



WARNING: Hearing damage may occur if the volume on the user supplied external amplified speaker is set too high.

Memory Menu



The user's project, Firmware and OS, log and recipes files can be backed up to or restored from an SD memory card (SD Card Slot 1 or SD Card Slot 2), or a USB memory device. From this menu the user can also clear the project log files. The user also has the ability to clear the memory within the **C-more** touch panel.

Item No.	Function	Description	Comments
1	Backup	Backup project, Firmware and OS, log & recipe files to the following memory devices: USB port - Type A: USB pen drive SD Card Slot1 (All panels): SD card SD Card Slot2 (12-inch & 15-inch): SD Card	Any USB 2.0 pen drive. SD formats SD and SDHC are supported. Capacity up to 32 GB. The backup data files are created and copied to a folder on the memory device named "EA_Memory Copy." The project file is named StartupStorage.eas9 "Log" and "Recipe" folders with the appropriate data files are also created on the memory device.
2	Restore	Restore project, Firmware and OS, log & recipe files to the internal memory from one of the following memory devices: USB port - Type A: USB pen drive SD Card Slot1 (All panels): SD card SD Card Slot2 (12-inch & 15-inch): SD Card	A folder on the memory device named "EA_Memory Copy" must exist containing a file named "StartupStorage.eas9". The project data file is stored in this file, and if the system data file was backed up, it also will be stored in this file. Any backed up log or recipe data files will be located under the appropriate "Log" or "Recipe" folders.
3	Clear Memory	Clear selected data files from the memory of the following internal memory or external memory devices: Built-in FLASH Memory USB port - Type A: USB pen drive SD Card Slot1 (All panels): SD card SD Card Slot2 (12-inch & 15-inch): SD Card	Can only clear project, log and recipe data files of the Built-in FLASH memory. Can clear entire contents or individual data files of external memory devices.
4	Reset to Factory Default	The touch panel's internal memory is set to the original factory defaults.	Clears all project memory.
5	Main Menu	Press to return to the Main Menu screen.	



NOTE: The Project is **RESTORED** to the panel from an external memory device. A project can be **TRANSFERRED** to and SD card or USB memory from the programming software to be **RESTORED** to a panel that is not connected to the programming software. This file has the .eas9 extension NOT the .eap9 extension of a projects **SAVED** from the software.

Project Executed from SD Card Slot 1

If an SD memory card is located in the SD Card Slot 1 at the time a project is transferred to the panel, the project will be stored on the SD card, not in the internal FLASH memory.

If Slot 1 contains an SD memory card with a project and the touch panel's power is cycled, then the project file stored on the SD card is loaded into the touch panel's internal memory and executed. Any project in the internal FLASH memory is cleared.



WARNING: During power up with an SD memory card plugged into an SD card slot, do not remove the memory card from the slot. Damage to the SD memory card and possibly the touch panel may result.

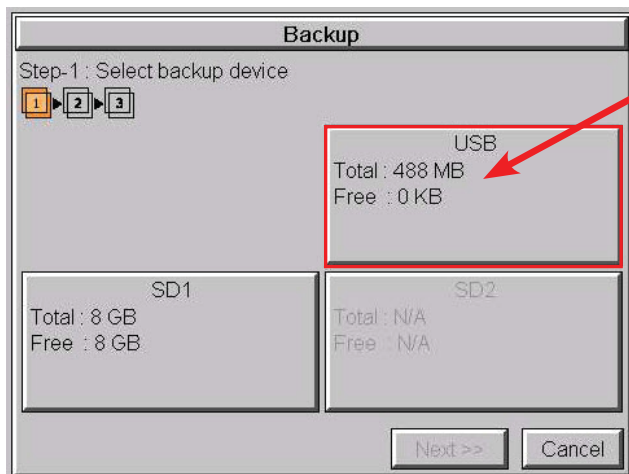


WARNING: After a firmware update, the project files which are located in either the touch panel's internal FLASH memory or an SD memory card plugged into an SD card slot are cleared. The programming software will need to be used to Transfer the project file back into the panel. If you wish to retain the project on the SD memory card, power down the panel and remove the SD card before performing a firmware upgrade.

Increasing Project Memory Size using an SD memory card:

If a project is transferred to the panel with an SD memory card in SD slot 1, the Font and Recipe data files are not included in the 26 MB (82MB for 12" and 15" models) project size. Therefore using an SD memory card can allow a project to be loaded that is larger than 26MB IF the excessive size is caused by Fonts and/or Recipe Sheets.

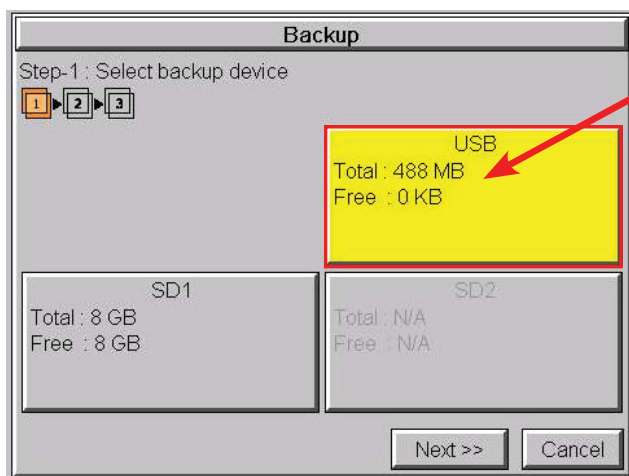
Memory – Backup



The Memory - Backup selection allows you to backup the panel's **Project**, **Log** files, **Recipe** files or even the **Firmware** files to either an SD memory card or **USB** pen drive. The available memory devices will be displayed with their total and free memory.

If the device is not available, it will be grayed out. The **Next** button is grayed out until a device is selected.

The **Cancel** button can be pressed at any time to return to the **Memory Menu** screen.



This is an example of selecting a USB memory device to write the backed up files to.

The selected device is highlighted. Pressing again deselects it.

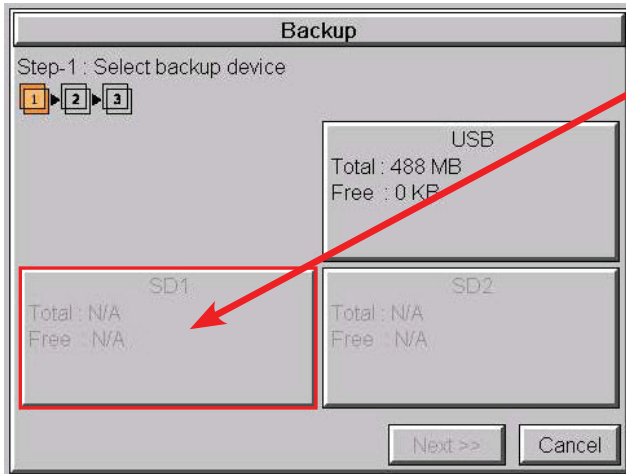
Even if there is only one available memory device, it still needs to be highlighted in order to go to the next step.

Press the Next button to continue to Step 2.

Please read the explanation for the availability of SD1 under different conditions that follow:

Memory – Backup (cont'd)

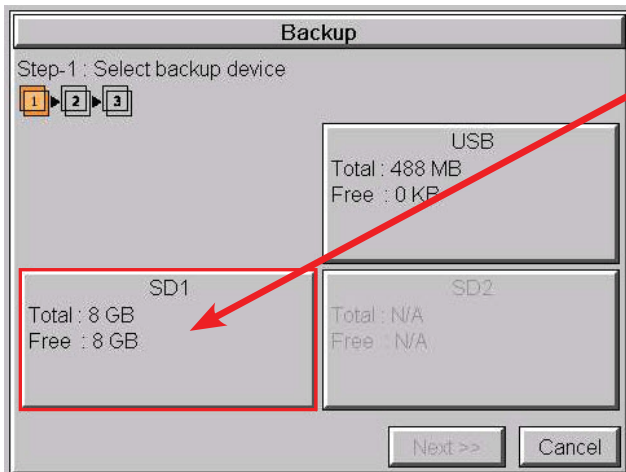
SD Card Slot1 Availability Explanation:



SD1 may be unavailable (grayed out) if there is no card in SD Slot 1 or the card in SD slot 1 has the project currently running on the panel stored on it.

The project will exist on SD1 if the SD card was installed in SD1 when the project was TRANSFERRED to the panel by the **C-more** programming software.

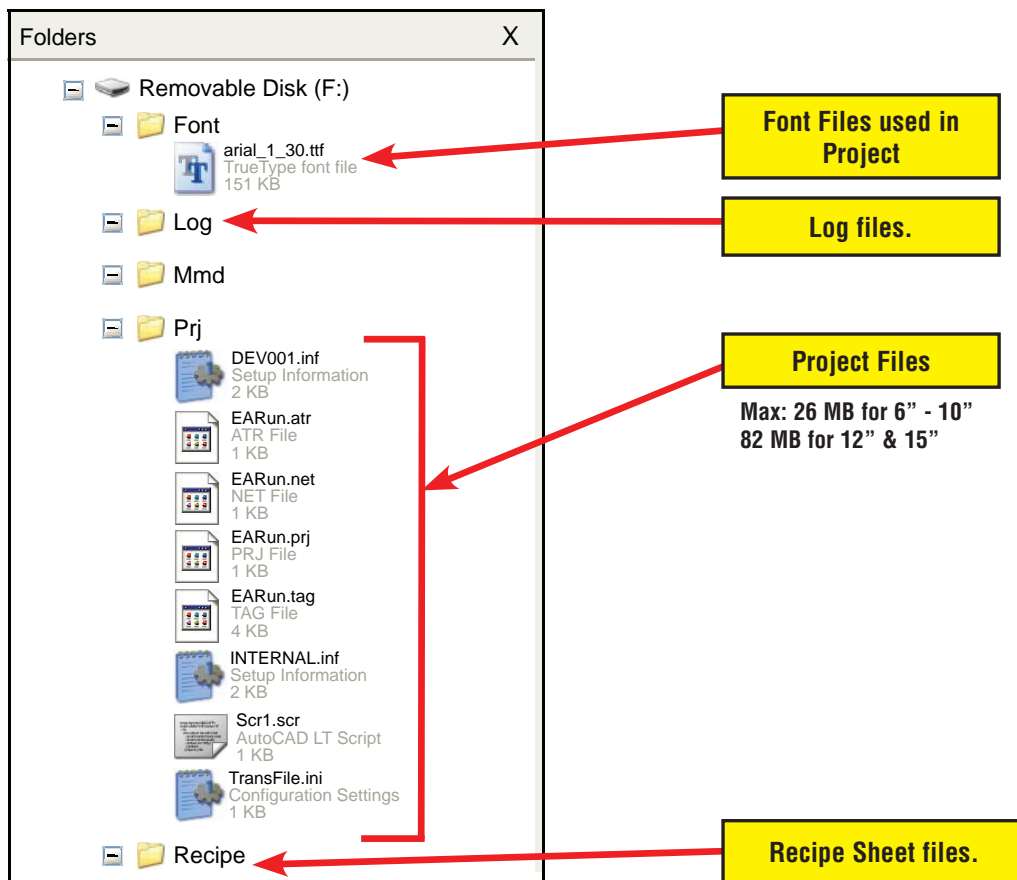
5



If the panel is powered up or rebooted with an SD card inserted into SD1 Slot, then the SD1 button's Total and Free memory will be displayed.

Memory – Backup (cont'd)

Below is an example of the folder and file structure that is stored on the SD card in the SD Slot 1 for a project that was directly transferred from the **C-more** Programming Software's Project Transfer to External Memory Device function when viewed in Windows® Explorer on a PC.



Memory – Backup (cont'd)



NOTE: The following definitions are for the various file types that can be backed up:

Project data – consists of the actual developed project data that is created in the **C-more** programming software and includes all functionality, objects, screens, tag names, labels, comments, graphics, etc. Included in backup file name *StartupStorage.eas9*.

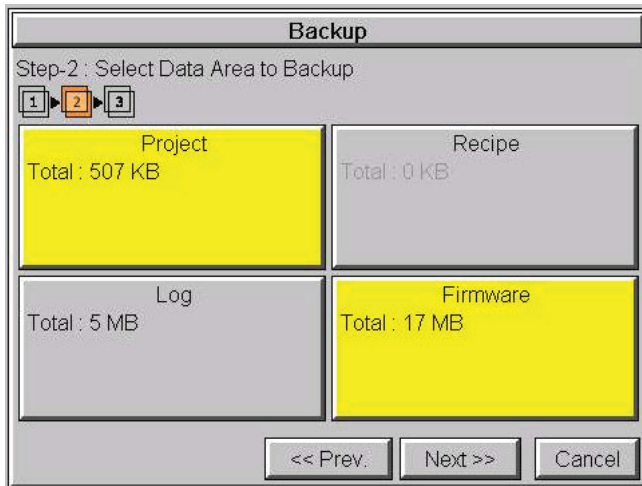
Recipe data – consists of all the data values and labels that have been created for the various recipe sheets. Includes all recipe sheets loaded to the panel. Only recipe sheets used in the project are loaded to the panel.

Firmware – consists of the operating system, firmware and run time files. Included in backup file name *StartupStorage.eas9*.

Log data – consists of the Alarm Log, Message Log and Trend Data Logging files.

Select the data file(s) to be backed up by pressing the appropriate data file button. The selection will be highlighted.

5



Pressing the highlighted data file button again will turn it off.

The Next >> button will stay grayed out until at least one data file is selected.

Any file type not available will be grayed out.

The Next >> button is now enabled.

Pressing Cancel will return to the previous menu.

Press the Next button to continue.



NOTE: In the case of the **Project** and **Firmware** files, these can be **Restored** later to another panel.

Recipe files can be edited externally from the panel and then **Restored** to the panel.

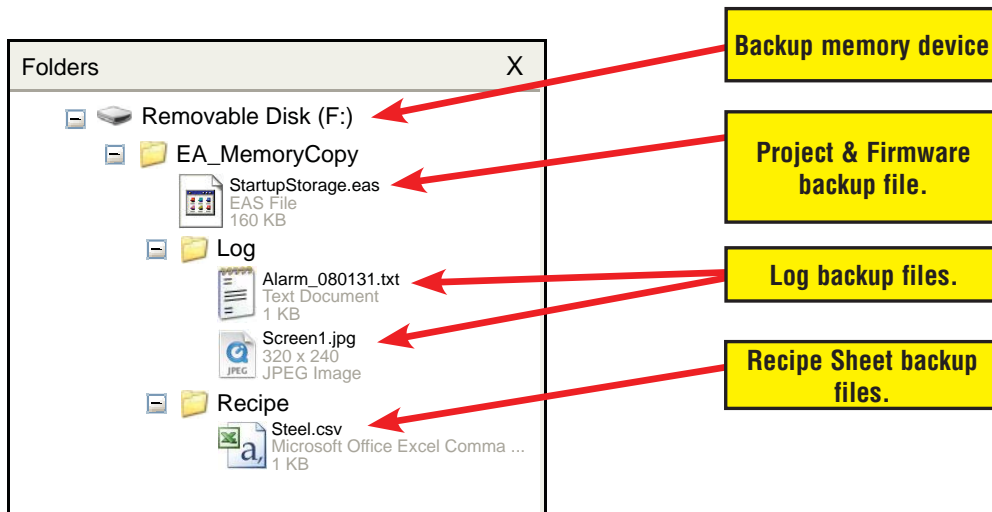
The **Log** files are for viewing purposes only.

See **Memory - Restore** later in this chapter for instructions on Restoring the Project, Firmware and or Recipe files to a Panel.

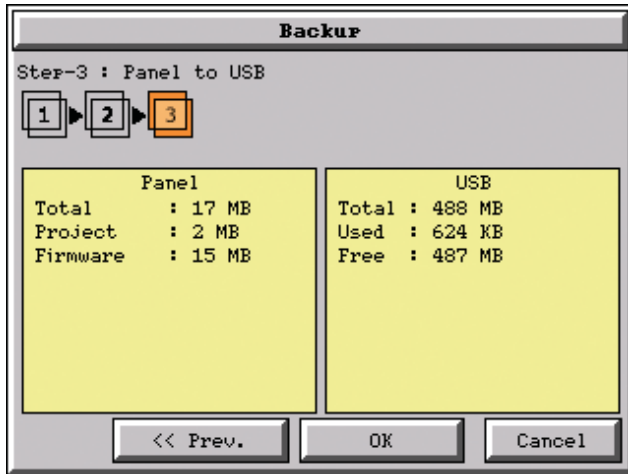
Memory – Backup (cont'd)

Backup Data Files Naming and Organization

The following graphic shows how the various data files are organized on the memory device when doing a **Backup** and also the file naming convention that is used when viewed in Windows® Explorer on a PC.



Memory – Backup (cont'd)



The next system setup screen allows the verification of the data file selections. When the OK button is pressed, the backup begins.

The user can return to the previous screen by pressing the << Prev button.

5



This message is displayed during the **Backup** copying process. Press the **Cancel** button to abort the backup.

The following text is shown in the copying progress message box:

Copy to USB Memory:

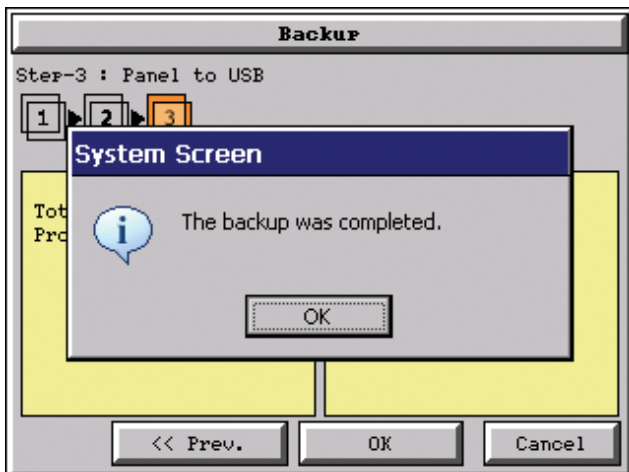
“Please do not Power Off and Remove USB”

Copy to SD1 or SD2:

“Please do not Power Off and Remove SD”



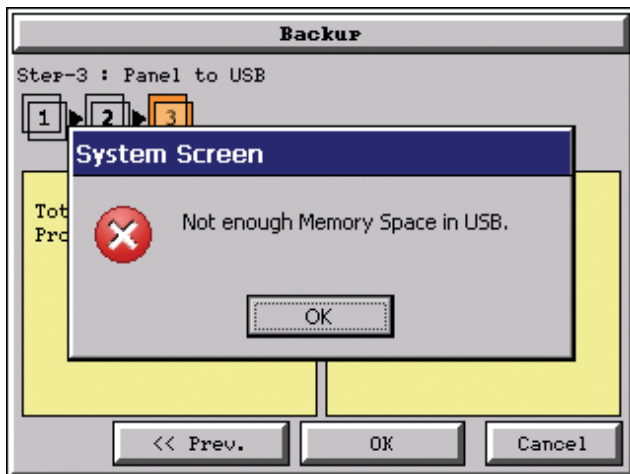
WARNING: During the copying process. Do not power off the touch panel or remove the memory device.



This message is displayed to indicate the **Backup** is complete. Press the **OK** button to return to the previous menu selection.

Memory – Backup (cont'd)

5



Warning Messages

If the destination does not have enough space to store the selected memory size, then the message shown here will be displayed. Press the **OK** button to clear the warning message.

The warning message will read “Not enough Memory Space in %Device%”.

%Device% will show either “SD1”, “SD2”, or “USB”.



This warning message will be displayed if the backup Memory device fails or is removed during the backup. Press the OK button to clear the warning message.

The warning message will read “Backup Failed. %Device% cannot be found”.

%Device% will show either “SD1”, “SD2”, or “USB”.

Refer to **Chapter 8: Troubleshooting** for additional help.



For any other reason the backup fails, then this warning message will be displayed. Press the **OK** button to clear the warning message.

The warning message will read “Backup Failed”.

Refer to **Chapter 8: Troubleshooting** for additional help.

Memory – Restore



The **Memory - Restore** function is used to:

- 1.) **Restore** a project previously backed up on an SD card or USB pen drive memory device to the same panel. See **Memory - Backup** previously in this chapter.
- 2.) Copy a project from one panel to another panel using a memory device to physically transport the data files.
- 3.) **Restore** a project into the panel that was transferred to an “External Memory Device” using the **C-more Programming Software**.
- 4.) **Restore Recipe Sheet(s)** previously backed up to a memory device or copied to the memory device using a PC.

The available memory devices will be displayed showing the total and free available memory for that device. If the device is not available, it will be grayed out. The **Next** button is grayed out until a device is selected.

The **Cancel** button can be pressed at any time to return to the **Memory Menu** screen.

This is an example of a USB memory device selected to be the source for restoring the data file(s).

The selected device is highlighted. Pressing again deselects it.

Even if there is only one available memory device, it needs to be highlighted in order to go to the next step.

Press the **Next** button to continue to continue to Step 2.

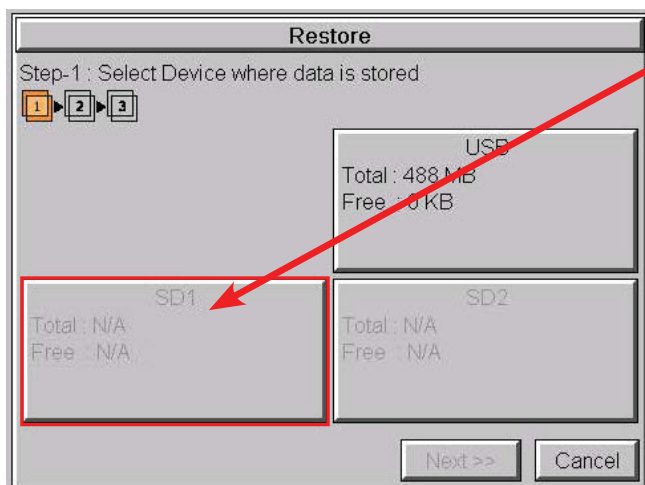


NOTE: If you have a memory device inserted into the proper port on the touch panel, but it doesn't show up as highlighted in Step 1 of the **Backup** setup screen, then try a different device to determine if the memory device is defective or if there is a possible problem with the memory device connection. It may not be compatible with the panel. Some USB pen drives are not USB 2.0 compatible and will not work with C-more touch panels. Some USB pen drives may take several minutes before they are recognized by the panel. SD cards must be formatted using the SD formatter provided by SDcard.org

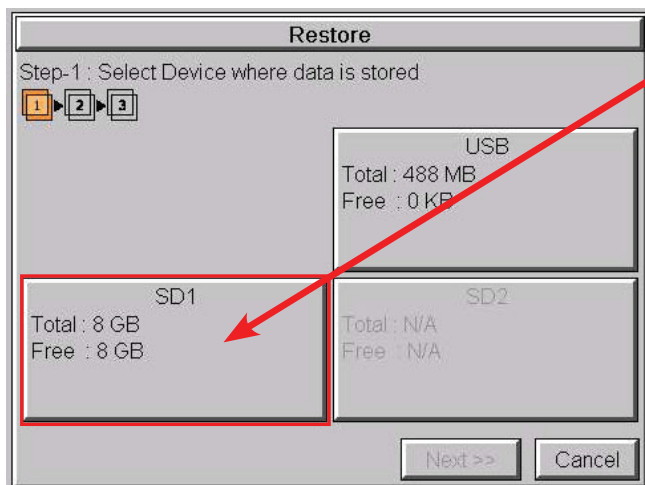
Memory – Restore (cont'd)

Please read the explanation for the availability of SD1 under different conditions as shown on this page and the next.

SD1 Availability Explanation:



SD1 may be unavailable (grayed out) if there is no card in SD Slot 1 or the card in SD slot 1 has the project currently running on the panel stored on it. The project will exist on SD1 if the SD card was installed in SD1 when the project was TRANSFERRED to the panel by the **C-more** programming software.



If the panel is powered up or rebooted with an SD card inserted into SD1 Slot, then the SD1 button's Total and Free memory will be displayed.



NOTE: The following definitions are for the various file types that can be restored:

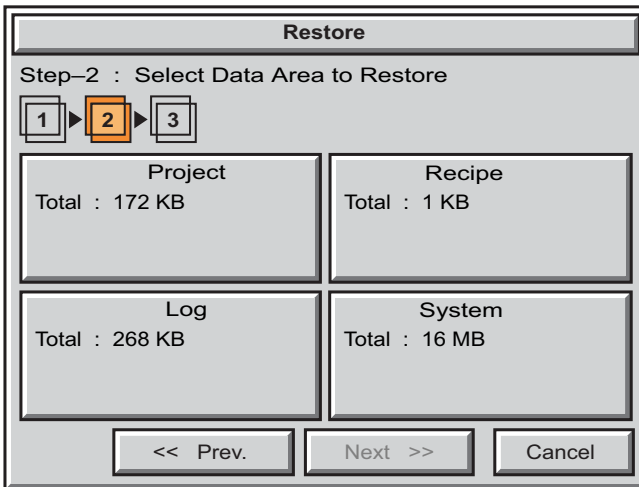
Project data – consists of the actual developed project data that is created in the **C-more** programming software and includes all functionality, objects, screens, tag names, labels, comments, graphics, etc. Included in backup file name *StartupStorage.eas9*.

Recipe data – consists of all the data values and labels that have been created for the various recipe sheets. Includes all recipe sheets loaded to the panel. Only recipe sheets used in the project are loaded to the panel.

Firmware – consists of the operating system, firmware and run time files. Included in backup file name *StartupStorage.eas9*.

Log data – consists of the Alarm Log, Message Log and Trend Data Logging files.

Memory – Restore (cont'd)

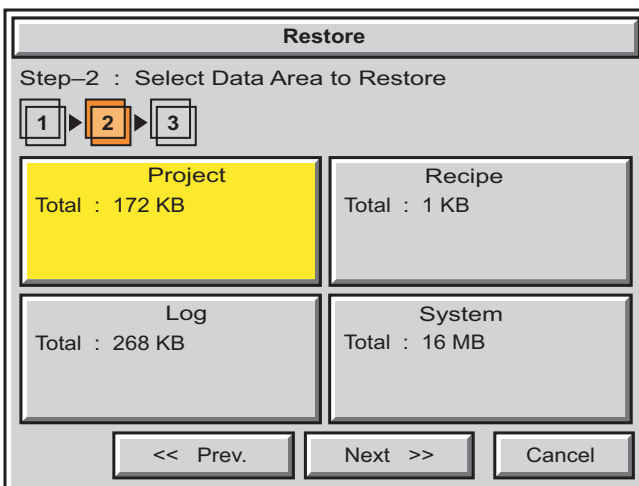


Select the data file(s) to be restored by pressing the appropriate data file button. The selection will be highlighted. The data file can be either the **Project**, **Firmware** and/or **Recipe files**. The selected data is restored to the internal built-in memory if there is no SD card inserted into the SD1 slot.

Pressing the highlighted data file again will turn it off. The **Next >>** button will stay grayed out until at least one data file is selected.

Any file type not available will be grayed out.

5



This is an example of a file selected to restore.

The selected file is highlighted.

The **Next >>** button is now enabled.

Pressing **Cancel** will return to the previous menu.

Press the **Next** button to continue.



NOTE: The following definitions are for the various file types that can be restored:

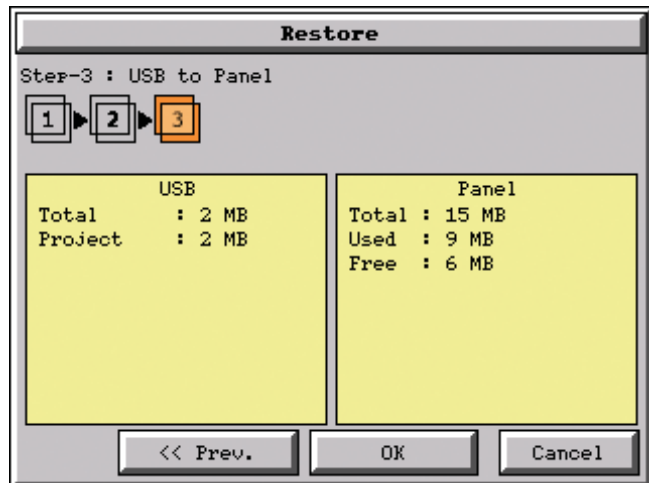
Project data – consists of the actual developed project data that is created in the **C-more** programming software and includes all functionality, objects, screens, tag names, labels, comments, graphics, etc. Included in backup file name *StartupStorage.eas9*.

Recipe data – consists of all the data values and labels that have been created for the various recipe sheets. Includes all recipe sheets loaded to the panel. Only recipe sheets used in the project are loaded to the panel.

Firmware – consists of the operating system, firmware and run time files. Included in backup file name *StartupStorage.eas9*.

Log data – consists of the Alarm Log, Message Log and Trend Data Logging files.

Memory – Restore (cont'd)



The data selected to restore is checked. If the data is good, then the **OK** button can be pressed to start the restore.

If there is a problem with the data, the **OK** button will remain grayed out and the user can return to the previous screen by pressing the **<< Prev** button.

The problem could be caused by a corrupted data file. See **Chapter 8: Troubleshooting** for additional help.



This message is displayed during the **Restore** process. Press the **Cancel** button to abort the backup.

The following text is shown in the copying progress message box:

Copy to USB Memory:

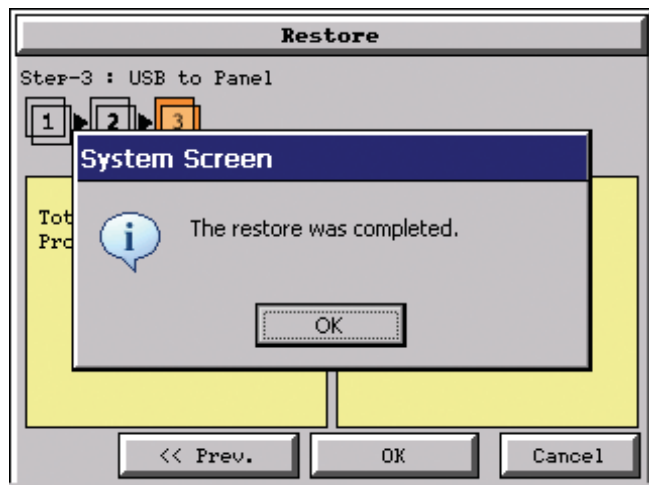
“Please do not Power Off and Remove USB”

Copy to SD1 or SD2:

“Please do not Power Off and Remove SD card”

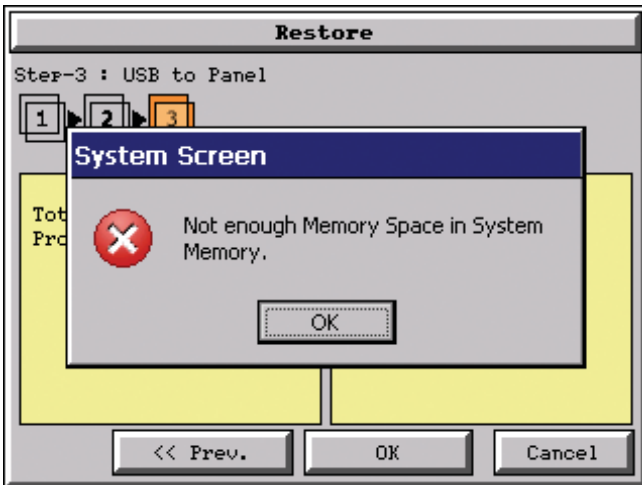


WARNING: During the copying process. Do not power off the touch panel or remove the memory device.



This message is displayed to indicate the **Restore** is complete. Press the **OK** button to return to the previous menu selection.

Memory – Restore (cont'd)

**Warning Messages:**

If the system memory does not have enough space to restore the selected memory size, then the message shown here will be displayed. Press the **OK** button to clear the warning message.

The warning message will read “Not enough Memory Space in System Memory”.

The Project size must be less than 10 MByte for 6”-10” panels and less than 40 MByte for 12” & 15” panels.

5

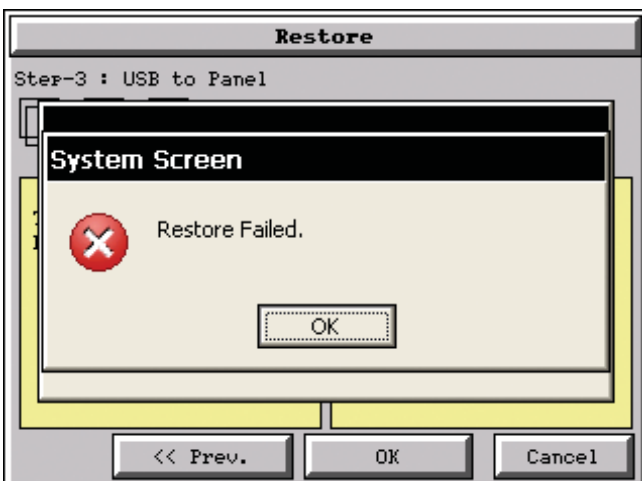


This warning message will be displayed if the restore Memory device fails or is removed during the backup. Press the **OK** button to clear the warning message.

The warning message will read “Restore Failed. %Device% cannot be found”.

%Device% will show show “SD1”, “SD2”, or “USB”.

Try using a different device with known good data in the same connector or using the device that is causing the error in a different connector.



For any other reason the restore fails, then this warning message will be displayed. Press the **OK** button to clear the warning message.

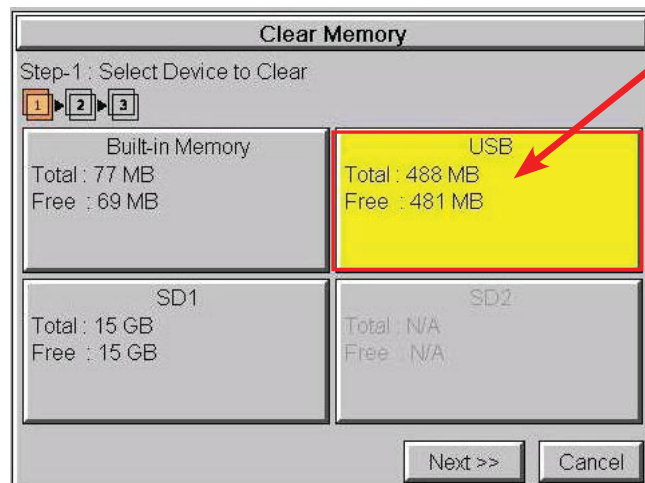
Memory – Clear Memory



This function is used to clear individually selected data files, or all data files, within the panel's **Built-in Memory**, or any installed memory device such as a USB pen drive or an SD card.

Select the memory device to clear. If the device is not available, it will be grayed out.

The Next button is grayed out until a device is selected.

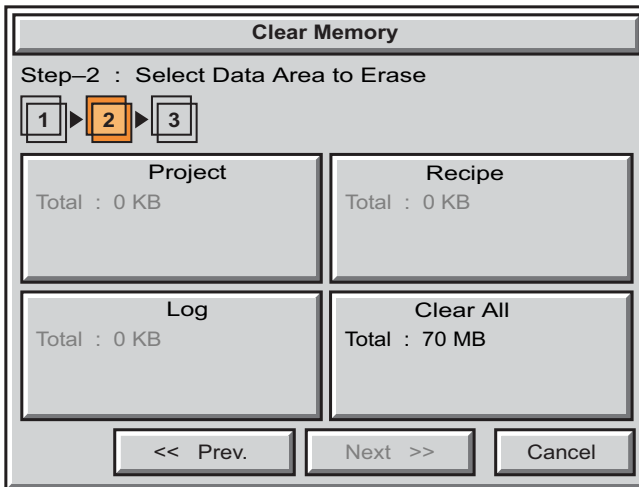


The selected device is highlighted. Pressing again deselects it.

When there are more than two available backup devices, the one selected will be highlighted. If another is selected, then the highlight will change to the last one pressed. Only one device can be selected at a time.

Press the **Next** button to continue.

Memory – Clear Memory (cont'd)



Select the data file(s) to be cleared.

This is an example of an SD card or USB memory that was selected in **Clear Memory - Step-1**.

The selected file will be highlighted. Pressing again deselects it.

The **Next >>** button will stay grayed out until file(s) are selected.

Selecting **Clear All** will erase all files located on the memory device.

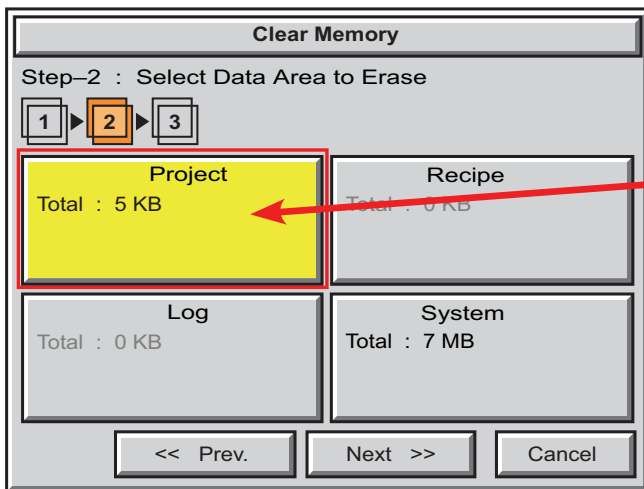
This is an example of **USB Memory** that was selected in **Clear Memory - Step-1**.

Notice the ability to select either the **Project** file, **Log** files, **Recipe** files, or the **System** files.



NOTE: Firmware files cannot be cleared from internal memory.

5



This is an example of the **Project** data file being selected for clearing.

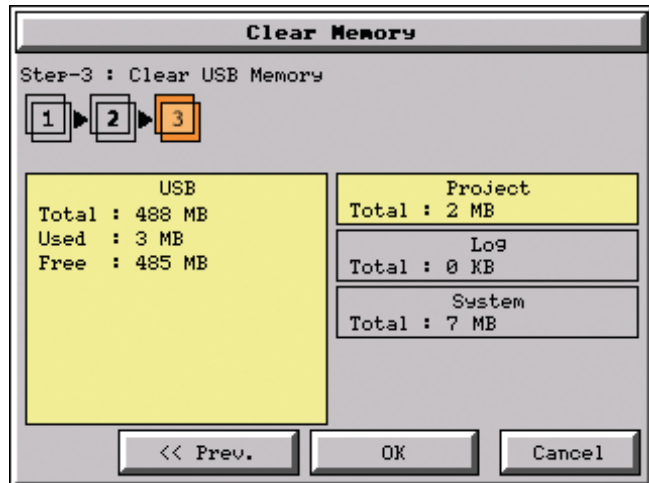
The selected memory area is highlighted. Pressing again deselects it.

The **Next >>** button is now enabled.

Pressing **Cancel** will deselect the file(s).

Press the **Next** button to continue.

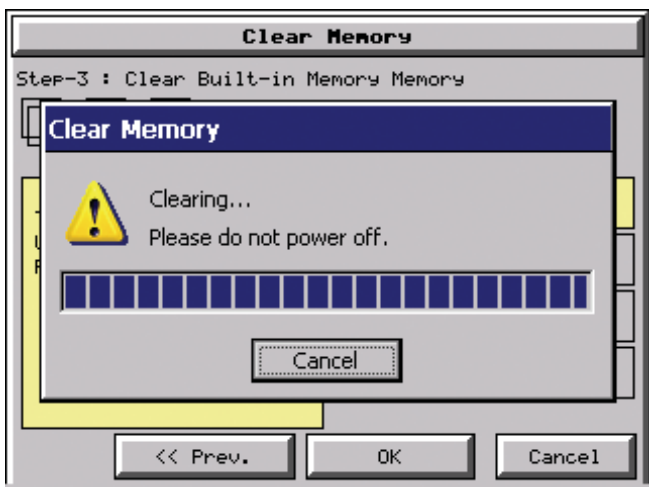
Memory – Clear Memory (cont'd)



The data file(s) selected to clear are checked. If the data file is good, then the **OK** button can be pressed to start the clear procedure.

If there is a problem with the data file, the **OK** button will remain grayed out and the user can return to the previous screen by pressing the **<< Prev** button.

Press the OK button to continue.



This message is displayed during the clearing process. Press the **Cancel** button to abort the clearing.

The following text is shown in the clearing progress message box:

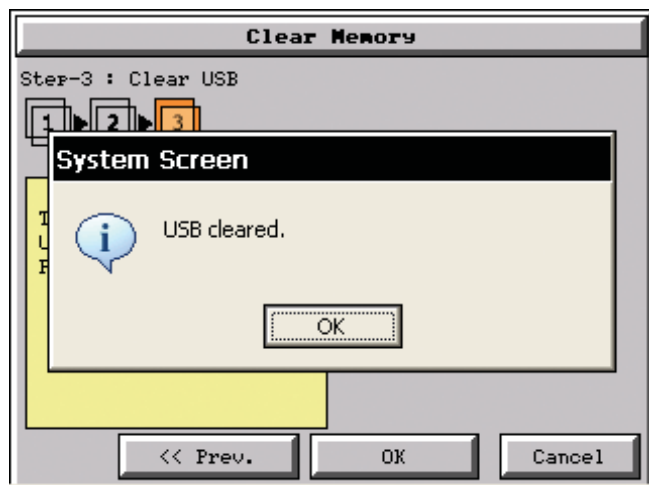
Clearing Built-in Memory:
"Please do not Power Off"

Clearing USB Memory:
"Please do not Power Off or Remove USB"

Clearing SD1 or SD2
"Please do not Power Off or Remove SD"



WARNING: During the clearing process, do not power off the touch panel or remove the memory device.



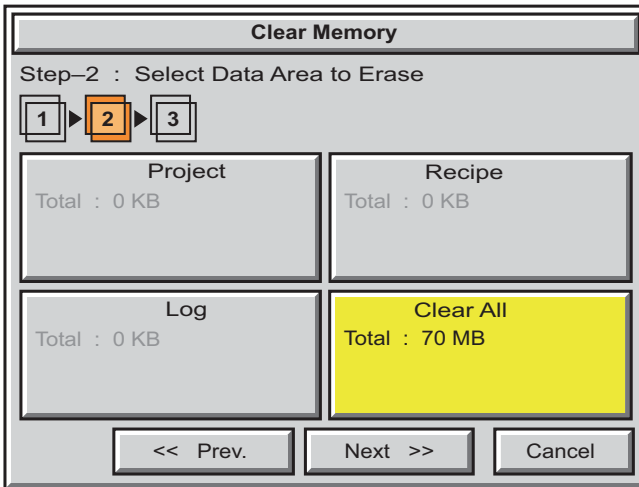
The following message is displayed when the clearing process is complete:

"%Device% cleared"

%Device% will show either "SD1", "SD2", or "USB".

Press the **OK** button to return to the **Memory Menu** screen.

Memory – Clear Memory (cont'd)



The following is an example of **Clear All** selected for clearing.

The selected device is highlighted.

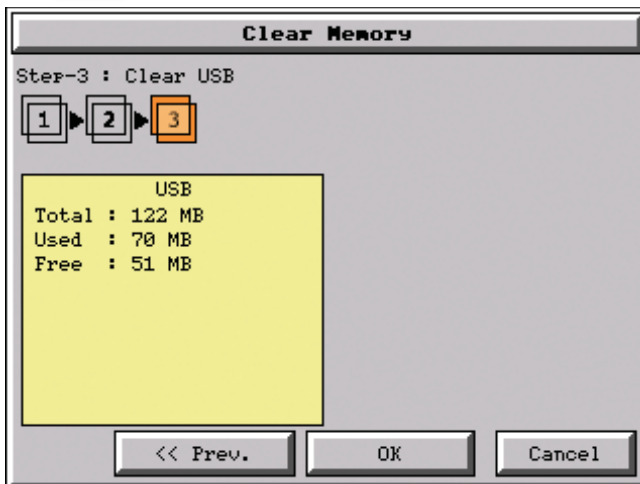
The **Next >>** button is now enabled.

Pressing **Cancel** will deselect the **Clear All**.

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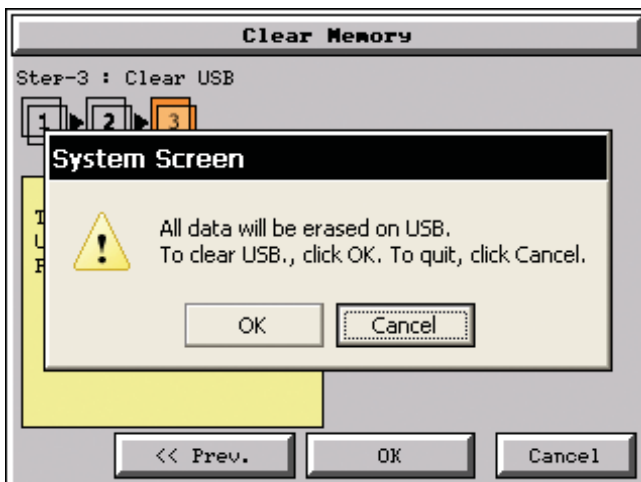
NOTE: If **Clear All** is selected, all files will be erased from the memory device, even those not related to the *C-more* touch panel.



The data file(s) selected to clear are verified. If the data file is good, then the OK button can be pressed to start the clear procedure.

If there is a problem with the data file, the **OK** button will remain grayed out and the user can return to the previous screen by pressing the << Prev button.

Press the **OK** button to continue.



The warning message shown here will be displayed to give the user the opportunity to decide if they want to proceed or not.

Press the **OK** button to continue.

The **Clear All** process will start with a warning message as seen in the first example and continue until a message saying the device is cleared or a warning message as shown on the next page will appear.

Memory – Clear Memory (cont'd)



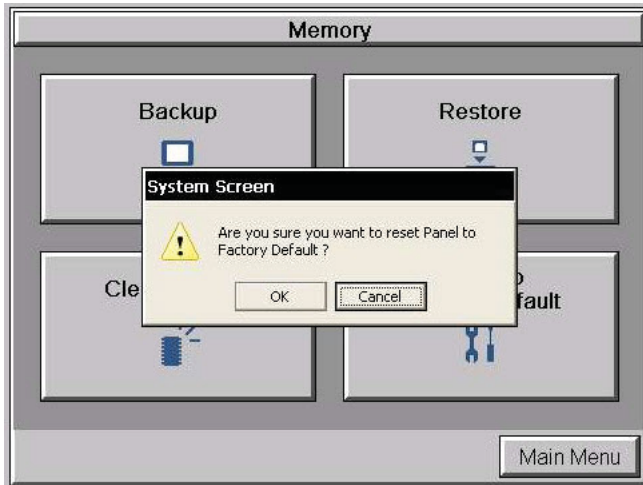
The warning message shown here will be displayed if the clearing process fails.

“Clear Failed”.

Press the **OK** button to return to the **Clear Memory** screen and try again.

If the selected memory still fails to clear, then refer to **Chapter 8: Troubleshooting** for additional help.

Memory – Reset to Factory Default



After pressing the **Reset to Factory Default** button from the **Memory Menu**, the message box shown will be displayed.

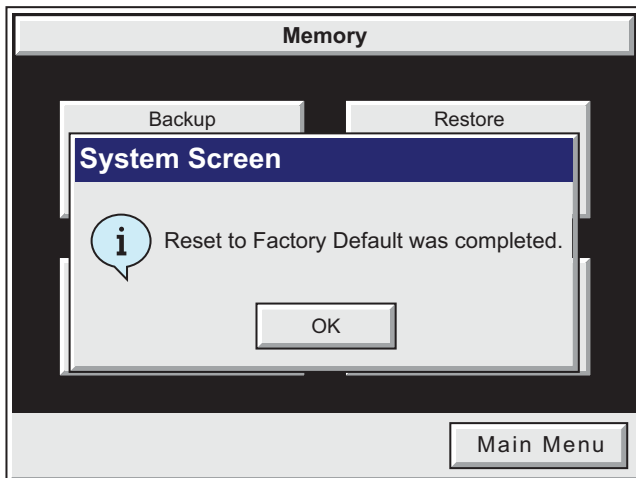
Resetting to the Factory Defaults produces the following actions:

- 1.) The touch screen calibration is reset to the Factory Defaults.
- 2.) The project file is cleared.
- 3.) The log, recipe & WAV files are cleared.
- 4.) The IP address is set to DHCP.

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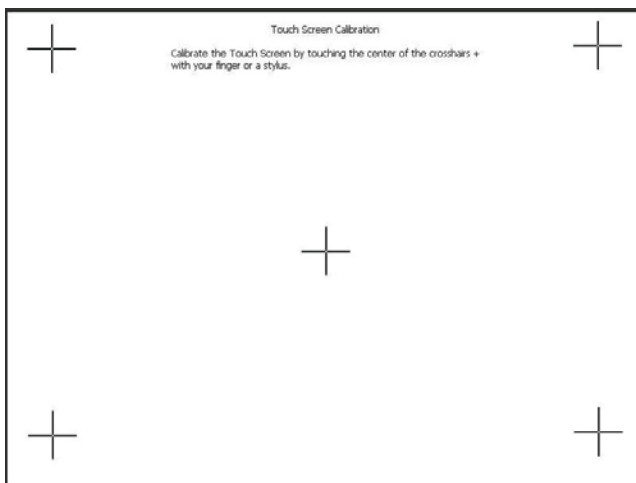


WARNING: As a precaution, it is recommended to create a backup file to an SD card or USB storage device using the Memory Backup function before resetting to factory defaults.



The message shown here is displayed once the **Factory Default** values have been stored into the system memory.

Press **OK** to continue.



After pressing **OK**, the touch panel will reboot and startup on the **Touch Screen Calibration** procedure as shown here.

The following note is also shown on the calibration screens to remind the user that the **Project File** has been cleared, there's no communications with the PLC, and the calibration procedure must be performed in order to ready the panel to download a project:

Note: The panel will not communicate or run its project in this mode.

Also, the **C-more Programming Software** will not connect to the panel in this situation.